COLLATOR
DFC-12/DFC-10

Instruction Manual

[220-240V]

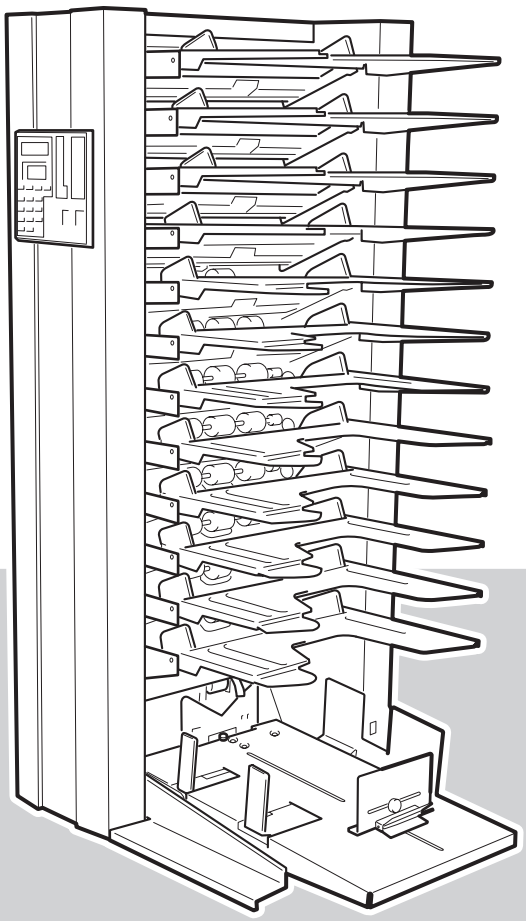

ILLUSTRATION : DFC-12

DUPLO CORPORATION

DECLARATION OF CONFORMITY

DUPLO CORPORATION, located at 7-6, Izumi-honcho 1-chome, Komae-shi, Tokyo 201-8666, Japan, declares that the following product,

• Name of product : Collator

• Models : DFC-12 and DFC-12B, 100-240V 50/60Hz
DFC-10 and DFC-10B, 100-240V 50/60Hz

complies with the provisions defined by the regulations listed below.

• Regulation : Machinery Directive 98/37/EC under EN292-1(1991), EN292-2(1991), prEN1010-1(2002), prEN1010-4(2001), EN60204-1(1997).
Low Voltage Directive 73 / 23 / EEC under IEC950 2nd (1991) + A1 (1992) + A2 (1993) + A3 (1995) + A4 (1996) including EN60950 2nd (1992) + A1 (1993) + A2 (1993) + A3 (1995) + A4(1997) + A11 (1997) deviations.
Electromagnetic Compatibility Directive 89 / 336 / EEC under EN55011(1998) + A1 (1999) Class B, EN55014-2 (1997), EN61000-3-2 (1995) + A1 / A2 (1998) / A14 (2000), EN61000-3-3 (1995), EN61000-6-2:1999.

En

ÜBEREINSTIMMUNGSERKLÄRUNG

Die DUPLO CORPORATION mit Sitz in 7-6, Izumi honcho 1-chome, Komae-shi, Tokyo 201-8666, Japan, versichert, daß das folgende produkt,

• Bezeichnung des Produkts :
Zusammentragmaschine

• Modell :
DFC-12 und DFC-12B, 100-240V 50/60Hz
DFC-10 und DFC-10B, 100-240V 50/60Hz

Entspricht den Bestimmungen, wie sie durch die unten aufgeführten Vorschriften definiert sind.

• Vorschriften :
Maschinenrichtlinie 98/37/EC nach EN292-1(1991), EN292-2(1991), prEN1010-1(2002), prEN1010-4(2001), EN60204-1(1997).
Niedervolt-Richtlinie 73/23/EEC nach IEC950 2nd (1991) + A1 (1992) + A2 (1993) + A3 (1995) + A4 (1996) und EN60950 2nd (1992) + A1 (1993) + A2 (1993) + A3 (1995) + A4(1997) + A11 (1997) Abweichungen.
EMC-Richtlinie 89/336/EEC nach EN55011(1998) + A1 (1999) Class B, EN55014-2 (1997), EN61000-3-2 (1995) + A1 / A2 (1998) / A14 (2000), EN61000-3-3 (1995), EN61000-6-2:1999.

Ge

DICHIARAZIONE DI CONFORMITÁ

DUPLO COPRORATION sita a 7-6,Izumi-honcho 1-chome , Komae-shi, Tokyo 201-8666 Japan,dichiara che il seguente prodotto,

• Nome del prodotto :
Fascicolatore

• Modello :
DFC-12 e DFC-12B, 100-240V 50/60Hz
DFC-10 e DFC-10B, 100-240V 50/60Hz

è conforme ai requisiti definiti dalle norme sotto elencate.

• Direttiva Bassa Tensione :
Direttiva sui macchinari 98/37/CE in base a EN292-1(1991), EN292-2(1991), prEN1010-1(2002), prEN1010-4(2001), EN60204-1(1997).
Direttiva relativa alle apparecchiature a bassa tensione 73/23/CEE in base a IEC950 2nd (1991) + A1 (1992) + A2 (1993) + A3 (1995) + A4 (1996) incluso EN60950 2nd (1992) + A1 (1993) + A2 (1993) + A3 (1995) + A4(1997) + A11 (1997) deviazioni.
Direttiva EMC 89/336/CEE in base a EN55011(1998) + A1 (1999) Class B, EN55014-2 (1997), EN61000-3-2 (1995) + A1 / A2 (1998) / A14 (2000), EN61000-3-3 (1995), EN61000-6-2:1999.

It

DECLARATION DE CONFORMITE

DUPLO CORPORATION, située à 7-6, Izumi honcho 1-chome, Komae-shi, Tokyo 201-8666, Japon, déclare que le produit suivant ;

• Nom du produit :
Assembleuse

• Modèle :
DFC-12 et DFC-12B, 100-240V 50/60Hz
DFC-10 et DFC-10B, 100-240V 50/60Hz

est conforme aux dispositions définies par les réglementations suivantes ;

• Réglementations :
Directive sur les machines 98/37/EC en application de EN292-1(1991), EN292-2(1991), prEN1010-1(2002), prEN1010-4(2001), EN60204-1(1997)
Directive sur la basse tension 73/23/EEC en application de IEC950 2nd (1991) + A1 (1992) + A2 (1993) + A3 (1995) + A4 (1996) et EN60950 2nd (1992) + A1 (1993) + A2 (1993) + A3 (1995) + A4(1997) + A11 (1997) derogations.
Directive de compatibilité électromagnétique 89/336/EEC d'après EN55011(1998) + A1 (1999) Class B, EN55014-2 (1997), EN61000-3-2 (1995) + A1 / A2 (1998) / A14 (2000), EN61000-3-3 (1995), EN61000-6-2:1999.

Fr

DECLARACIÓN DE CONFORMIDAD

DUPLO CORPORATION, con domicilio en 7-6, Izumi honcho 1-chome, Komae-shi, Tokio 201-8666 Japan, declara que el producto siguiente:

• Nombre del producto :
Clasificador

• Modelos :
DFC-12 y DFC-12B, 100-240V 50/60Hz
DFC-10 y DFC-10B, 100-240V 50/60Hz

Cumple las disposiciones definidas por las siguientes reglamentaciones:

• Reglamentaciones :
Directiva 98/37/CE sobre máquinas bajo EN292-1(1991), EN292-2(1991), prEN1010-1(2002), prEN1010-4(2001), EN60204-1(1997).
Directiva sobre baja tensión 73/23/CEE bajo IEC950 2nd (1991) + A1 (1992) + A2 (1993) + A3 (1995) + A4 (1996) incluyendo las derogaciones EN60950 2nd (1992) + A1 (1993) + A2 (1993) + A3 (1995) + A4(1997) + A11 (1997).
Directiva sobre CEM89/336/CEE bajo EN55011(1998) + A1 (1999) Class B, EN55014-2 (1997), EN61000-3-2 (1995) + A1 / A2 (1998) / A14 (2000), EN61000-3-3 (1995), EN61000-6-2:1999.

Sp

1. INTRODUCTION

Thank you for your purchase. To ensure correct usage, please read this instruction manual thoroughly, especially the section Safety Precautions. After reading, please store this instruction manual in a safe place for future reference.

2. TABLE OF CONTENTS

1. INTRODUCTION 1

2. TABLE OF CONTENTS 1

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Symbols in this Manual

Following symbols are used in this manual to indicate important particulars. They have the following meanings.

Note **Indicates attentions to be paid in use.**	☞ **Indicates the page to be referred to for related information.**

3. SAFETY PRECAUTIONS

Always observe the cautions and warnings given below to prevent personal injury or property damage.

■ **The degree of danger and damage that could occur is indicated on two levels by the following marks.**

⚠*WARNING:*	***Ignoring this mark could result in the possibility of serious injury or even death.***
⚠*CAUTION:*	***Ignoring this mark could result in the possibility of injury or physical damage.***

■ **The following graphic symbols indicate the various types of action to be performed or avoided.**

⃠	**This graphic symbol indicates a forbidden action.**
	means "Do not disassemble."
	means "Do not touch."
●	**This graphic symbol indicates actions that must be performed.**
	means "Disconnect the power plug."

⚠*WARNING:*

Do not place metal objects or vessels containing liquids on top of the unit. The entry of any metal object or liquid could result in fire or electrical shock.

Do not insert any metal or easily-combustible object inside this unit. This could result in fire or electrical shock.

Do not touch or insert foreign objects into any rotating part during operation. This could result in injury.

Do not remove the cover or back panel. This unit contains high-voltage components that could cause electrical shock.

Do not disassemble, modify or repair this unit. There is a danger of fire, electrical shock or injury. Contact your dealer when repairs are necessary.

Use only the power supply voltage specified on the main nameplate. Using other voltages could result in fire or electrical shock.

Keep this unit and the power cord away from heaters and heater vents. Excessive heat could melt the cover or power cord covering, and result in fire or electrical shock.

Do not use flammable sprays or solvent inside or near the unit (e.g. when cleaning the unit).
Such flammable gas or solvent may ignite and cause a fire or combustion.

Make sure that the combined power consumption of the appliances to be connected does not exceed the capacity rating of the power outlets or plug receptacles. Exceeding the capacity rating could cause the power outlets, plug receptacles, or power extension cords to overheat and catch fire.

Remove any dust that accumulates on the power plug prongs and the surface of the plug from which the prongs extend. Accumulated dust can result in fire.

If any foreign object such as metal or liquid should enter this unit, immediately turn the unit off at the power switch and disconnect the power plug from the power outlet. Failure to do so could result in fire or electrical shock. Contact your dealer immediately.

Do not damage the power cord or power plug. (Do not scratch, alter, bend, twist, pull or place heavy objects on the power cord or power plug.)
This could result in damage, fire or electrical shock.

Always grip the plug when disconnecting the power plug from the power outlet. Pulling on the power cord could cause damage, resulting in fire or electrical shock.

Do not handle the power plug with wet hands. This could result in electrical shock.

Before cleaning this unit, turn the unit off at the power switch and disconnect the power plug from the power outlet. Accidental operation of the unit during cleaning could result in injury.

Do not touch the power switch with wet hands. Otherwise electric hazards may occur.

⚠*CAUTION:*

Always disconnect the power plug from the power outlet when the unit is not to be used for an extended period. Failure to do so could result in fire due to leakage current if the insulation should deteriorate.

Install this unit on a level, stable stand or floor, with sufficient space around it. Failure to do so could result in the unit overturning and causing injury.

Do not install this unit in a location where there is excessive humidity or where contact with water is possible. Poor choice of location could result in deterioration of the insulation, fire or electrical shock.

Disconnect the power plug from the power outlet before attempting to move this unit. Failure to do so could result in power cord damage, fire or electrical shock.

4. USAGE PRECAUTIONS

Power supply

- This equipment shall be installed near the socket-outlet where the plug on the power supply cord is easily accessible.
- Make sure the power supply used is always within the following range.
  100-240V AC, 50/60Hz
- When you power other appliances from the same AC outlet, make sure that the combined power consumption does not exceed the power supply capacity.
  Rated power of this equipment : 2.8-1.2A(DFC-12) / 2.0-0.8A(DFC-10)

Operating environment

Operate this unit in the following environment:

- **where the temperature range is between 5 and 35°C,**
- **where the humidity range is between 20 and 85%RH (no dew condensation),**
- **which is not subject to direct sunlight,**
- **which is subject to little or no vibration,**
- **where there are no harmful chemicals,**
- **which is reasonably free from dust,**
- **which is free from air-borne salt, and**
- **where the equipment is not exposed to water.**

Storage conditions

Store this unit in the following environment:

- **where the temperature range is between -10 and +50°C,**
- **where the humidity range is between 10 and 90%RH (no dew condensation),**
- **which is not subject to direct sunlight,**
- **which is subject to little or no vibration,**
- **where there are no harmful chemicals,**
- **which is reasonably free from dust,**
- **which is free from air-borne salt, and**
- **where the equipment is not exposed to water.**

Maintenance

To protect the special features of this unit, the customer should never apply oil or grease to the parts.
Please contact your dealer in case of any problem.

5. FEATURES OF THIS MACHINE

The DFC-12 and DFC-10 can collate paper sizes from A5 to A3SR.

The DFC-12 can collate 12 sheets and the DFC-10 can collate 10 sheets.

By connecting two DFC-12 (DFC-10) machines, up to 24 (20) sheets can be collated.

The following four collation methods are available.

Normal mode: Collates paper on the bins from the top tray in order and ejects as one set.
Interleaving mode: Inserts interleaves after every specified number of sets processed to separate the collated sets.
Block mode: Divides the paper on the bins into the upper half block and lower half block and collates paper.
Alternative mode: The same pages can be divided into two piles and stacked on continuing odd and even bins, and collated taking the two bins as one bin. For details, refer to "10. LOADING PAPER ACCORDING TO COLLATION MODE" (☞ page 15).

Collated sets can be received in "offset mode" or "straight mode".

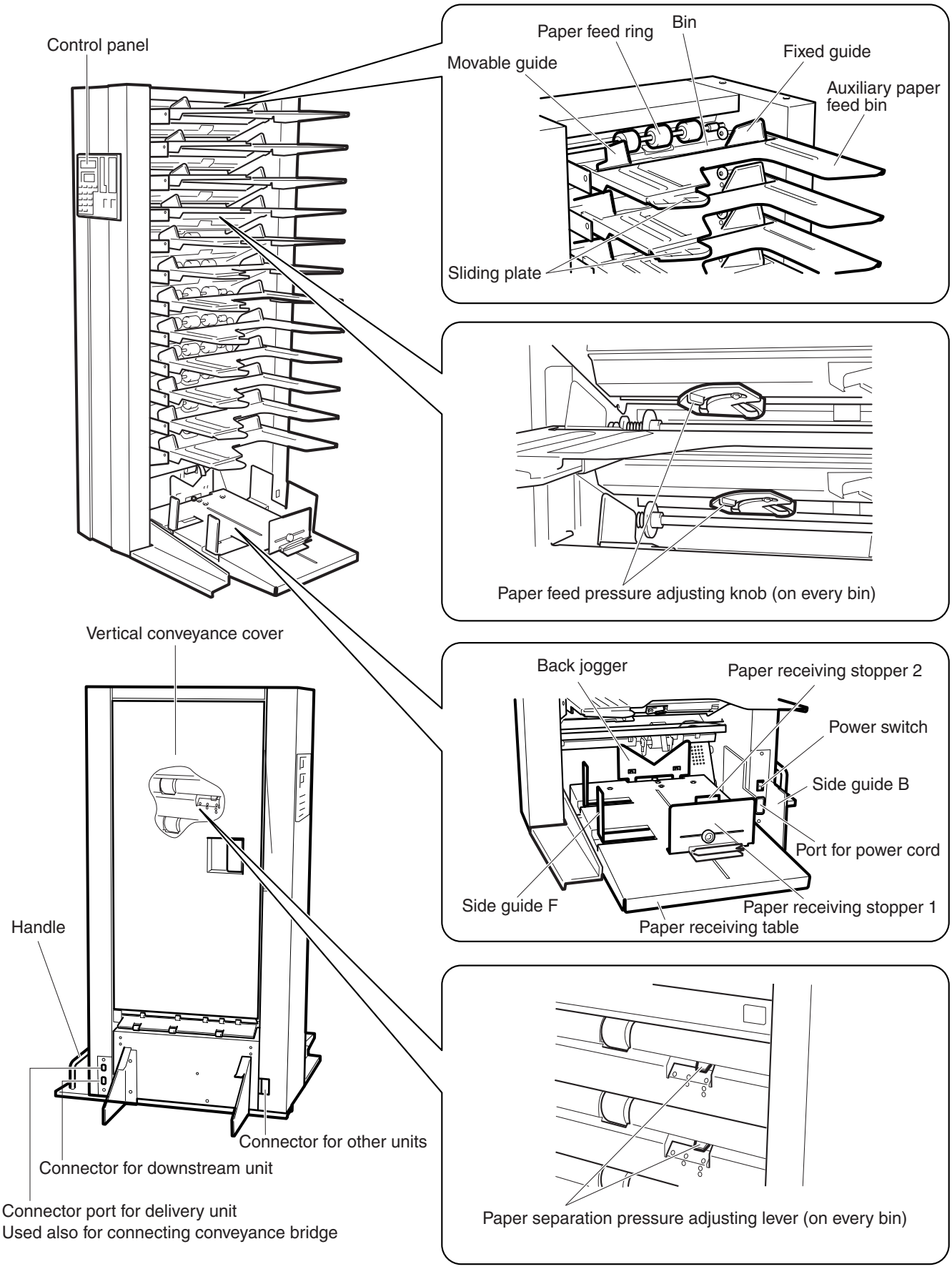
For details, refer to "11-5. Setting the paper receiving method" of "11. USING THE CONTROL PANEL" (☞ page 23).

The optional downstream units (DBM-120, DBM-120T, DC-S, DC-S4) can be connected.

Downstream units to bind, punch, or trim collated paper can be connected.

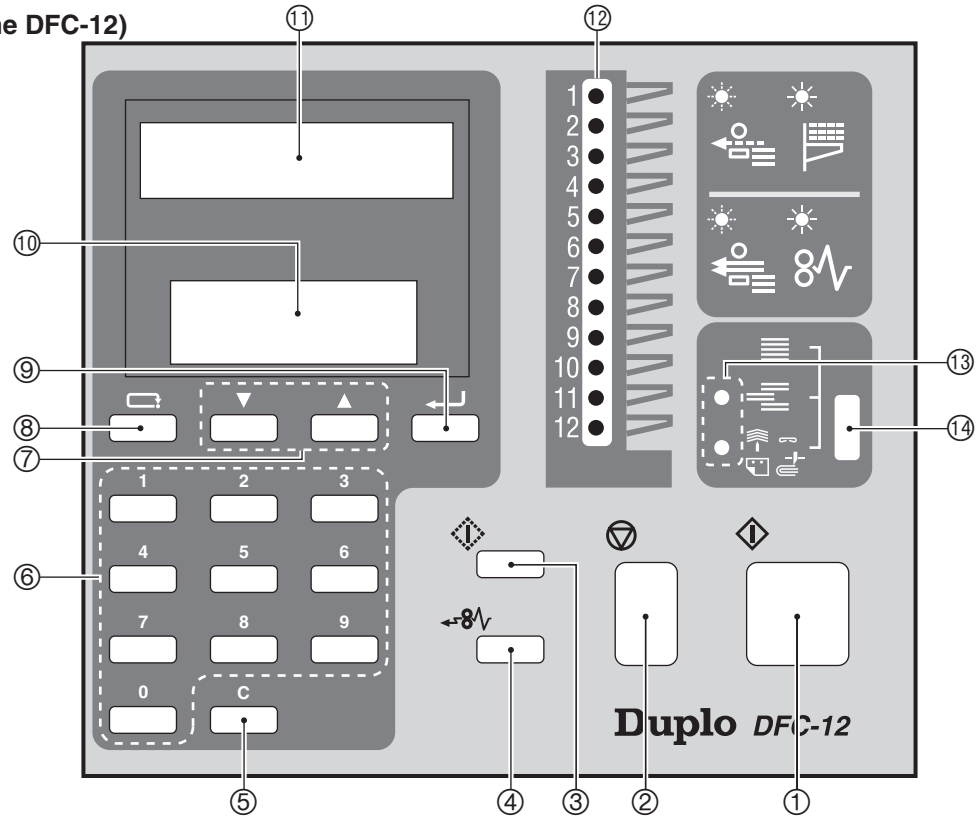
6. NAMES OF PARTS

(The illustration shows the DFC-12)



7. NAMES AND FUNCTIONS OF CONTROL PANEL PARTS

(The panel is the DFC-12)



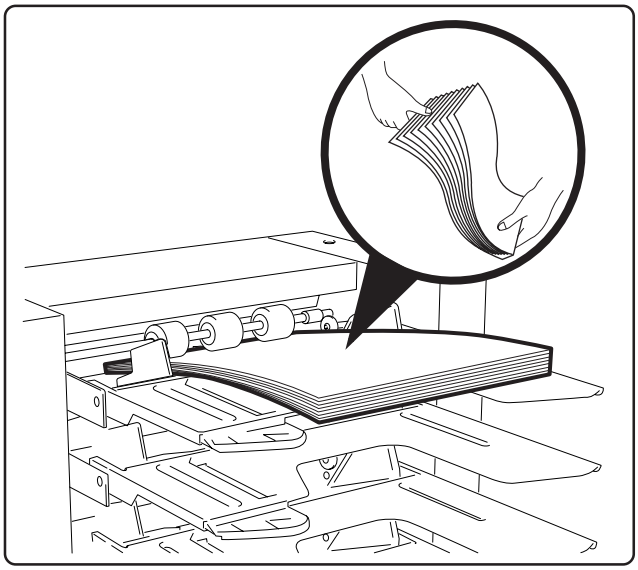
No.	Name	Function
①	Start key	Press this key to start operating the unit. (☞ Page 14)
②	Stop key	Press this key to stop the unit. (☞ Page 14)
③	Preset key	Press this key before starting the first collation job. (☞ Page 14) Paper for one set is sent from the paper feed bins to memorize the length and thickness of the paper, and the number of bins used.
④	Eject key	Press this key when paper jams. (☞ Page 41) The motor will rotate while pressed to eject the jammed paper out.
⑤	Clear key (C)	Use for clearing the number entered to "0". (☞ Page 22)
⑥	Numerical keys (0 to 9)	For entering the number of sets to be collated.(☞ Page 22)
⑦	Scroll key	Use this key to scroll the LCD menu.(☞ Page 20)
⑧	Escape key	Press this key to return to the standby screen after completing settings at the menu screen.(☞ Page 20)
⑨	Enter key	Press this key to change the menu screen and to confirm settings. (☞ Page 20)
⑩	NO. OF SETS window	Displays the number of collated sets or the number of sets remaining for collation.(☞ Page 22)
⑪	LCD window	For checking the current operating status of the unit or the current collation mode.(☞ Page 19)
⑫	Bin error lamp When lit in green: When blinking in green: When lit in red: When blinking in red:	Lights or blinks at the bin with the paper feed error. (☞ Page 36,37) Indicates no paper. (☞ Page 36) Indicates Empty-feed.(☞ Page 37) Indicates paper has jammed.(☞ Page 36) Indicates double-feed.(☞ Page 37) During presetting, bins with no paper will light up in green.(☞ Page 14)
⑬	Mode display lamp	Indicates the lamp to switch between the offset mode, straight mode, or optional mode*. (Both lamps will be off when the straight mode is selected.)(☞ Page 23)
⑭	Select key	Press this key to change the paper ejection direction and paper receiving method.(☞ Page 23)

*Lights up only when a downstream unit is connected.

8. PRECAUTIONS ON LOADING PAPER

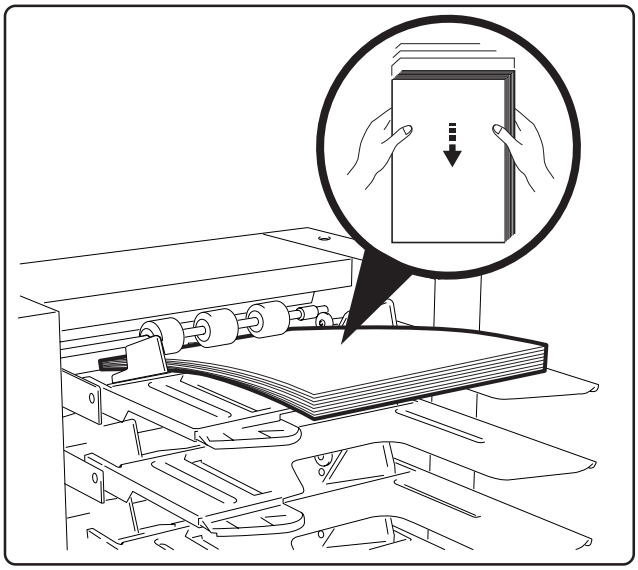
■ **Fan paper sufficiently before loading on the bin.**

- If the paper is not separated well, mis-feed, double-feed or paper jam may occur.
- Flatten folded or curled paper before stacking.



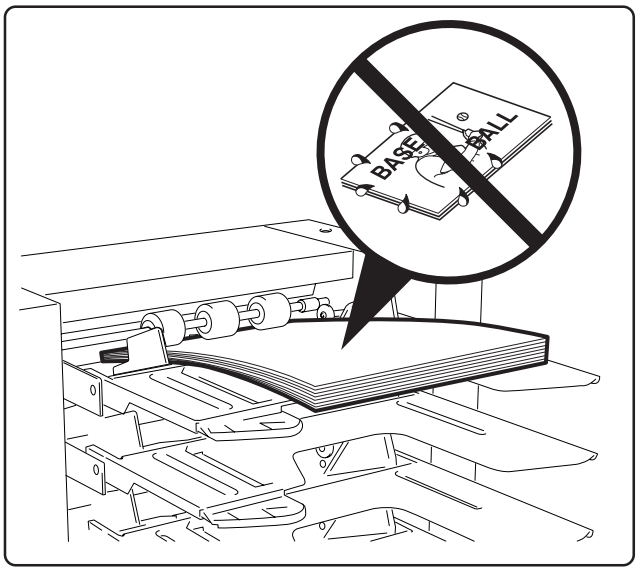
■ **Align the lead edge of the paper stock, and place it on the bin.**

- If the paper is not loaded neatly mis-feed, or double-feed may occur.



■ **Make sure that ink on the paper has dried completely.**

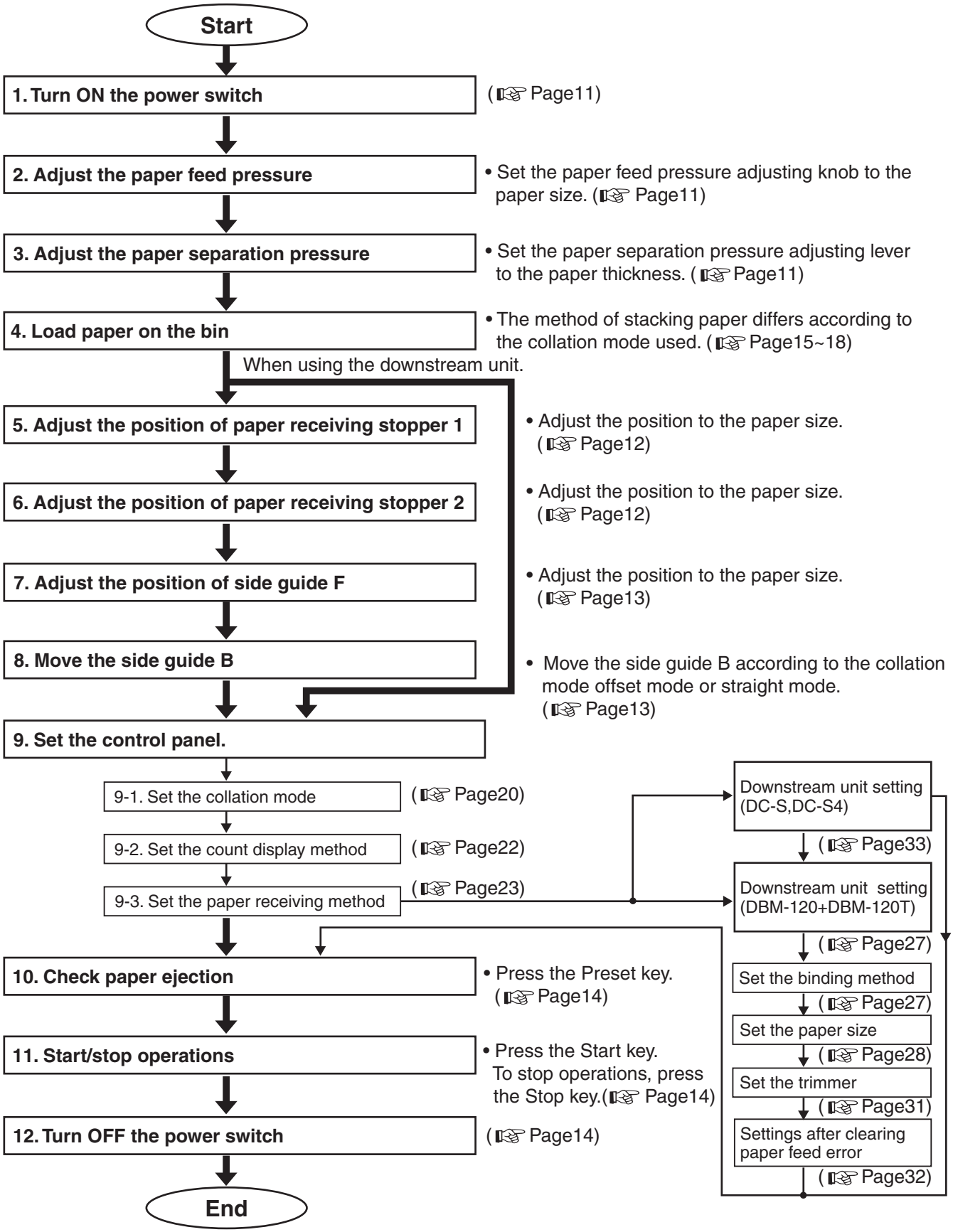
- If not, not only will the unit become dirty, but other problems (double-feed, mis-feed, paper jam) may occur.



9. OPERATIONS

Flowchart of operations

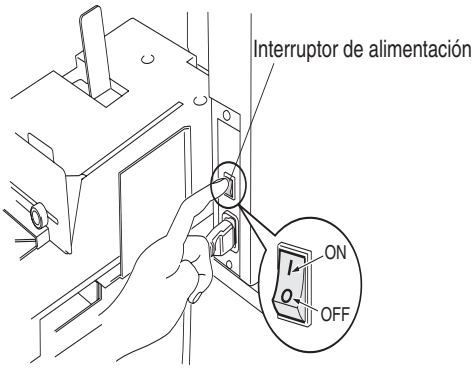
The following shows the flowchart of the basic operations.
For details, refer to the text and corresponding pages.


Start
1. Turn ON the power switch
(☞ Page11)
2. Adjust the paper feed pressure
• Set the paper feed pressure adjusting knob to the paper size. (☞ Page11)
3. Adjust the paper separation pressure
• Set the paper separation pressure adjusting lever to the paper thickness. (☞ Page11)
4. Load paper on the bin
• The method of stacking paper differs according to the collation mode used. (☞ Page15~18)
When using the downstream unit.
5. Adjust the position of paper receiving stopper 1
• Adjust the position to the paper size. (☞ Page12)
6. Adjust the position of paper receiving stopper 2
• Adjust the position to the paper size. (☞ Page12)
7. Adjust the position of side guide F
• Adjust the position to the paper size. (☞ Page13)
8. Move the side guide B
• Move the side guide B according to the collation mode offset mode or straight mode. (☞ Page13)
9. Set the control panel.
9-1. Set the collation mode
(☞ Page20)
9-2. Set the count display method
(☞ Page22)
9-3. Set the paper receiving method
(☞ Page23)
Downstream unit setting (DC-S,DC-S4)
(☞ Page33)
Downstream unit setting (DBM-120+DBM-120T)
(☞ Page27)
Set the binding method
(☞ Page27)
Set the paper size
(☞ Page28)
Set the trimmer
(☞ Page31)
Settings after clearing paper feed error
(☞ Page32)
10. Check paper ejection
• Press the Preset key. (☞ Page14)
11. Start/stop operations
• Press the Start key. To stop operations, press the Stop key.(☞ Page14)
12. Turn OFF the power switch
(☞ Page14)
End

1 Turn ON the power switch.

- Pressing "I" turns ON the power supply.
  Pressing "O" turns OFF the power supply.

When the downstream unit is connected, turning ON the power switch of the DFC-12/10 will automatically turn ON the power of the downstream unit as well by the remote function. Be sure to wait for more than 10 seconds when switching ON again after having switched OFF.



⚠ WARNING

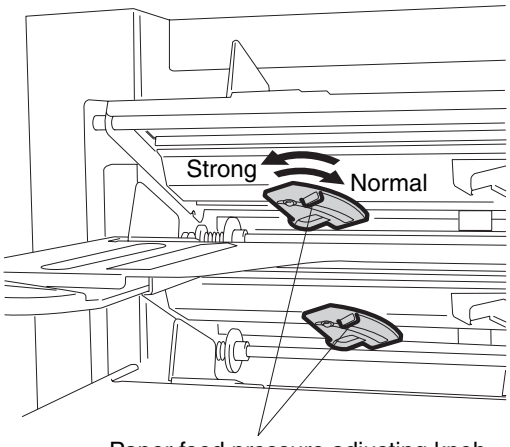
Do not touch the power switch with wet hands.

Otherwise electric hazards may occur.

2 Set the paper feed pressure adjusting knob to the paper size.

Note **As a paper feed pressure adjusting knob is provided for each bin, adjust each knob to the paper size.**

- If the paper size is less than A3, set the knob to the right position (normal).
- If the paper size is more than A3, set the knob to the left position (strong).

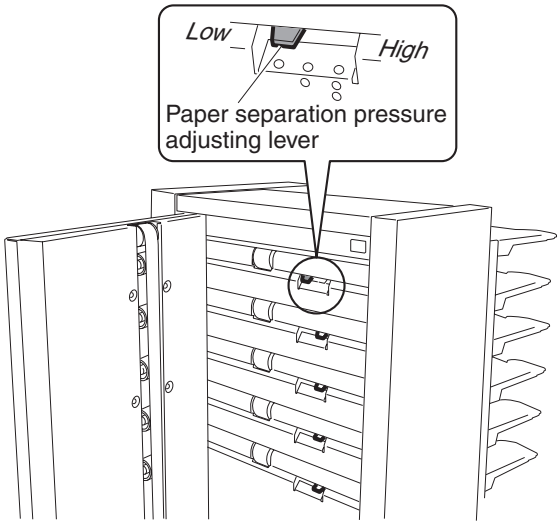


Paper feed pressure adjusting knob

3 Adjust the paper separation pressure adjusting lever to the paper thickness.

Note **As a separator pressure adjusting lever is provided for each bin, adjust each lever to the paper thickness.**

- When using thick paper, move the lever to the left (where the pressure is low).
- When using normal paper, move the lever to the center.
- When using thin paper, move the lever to the right (where the pressure is high).



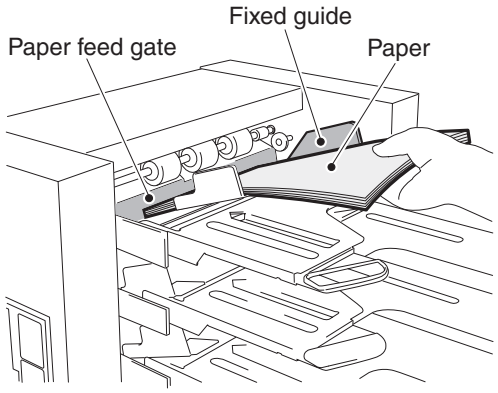
4 Load the paper on the bins.

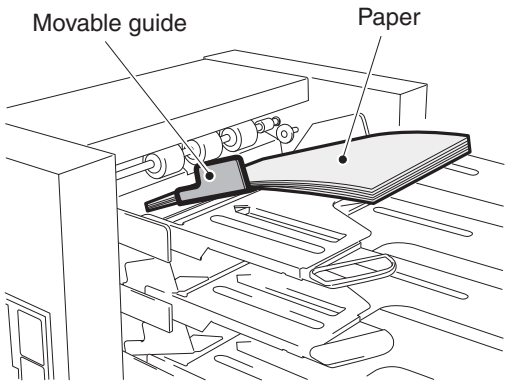
Insert the paper along the fixed guide until it touches the guide of the paper feed gate lightly.

- The maximum height of paper which can be stacked is 28 mm. Be careful not to overstack.

Contact the movable guide lightly to the edge of the paper.

Note **The method of loading paper differs according to the normal mode, interleaving mode, block mode, and alternative mode.**
For details, refer to "10. LOADING PAPER ACCORDING TO COLLATION MODE" (☞ page 15).
Proceed to step 9 when using the downstream unit.

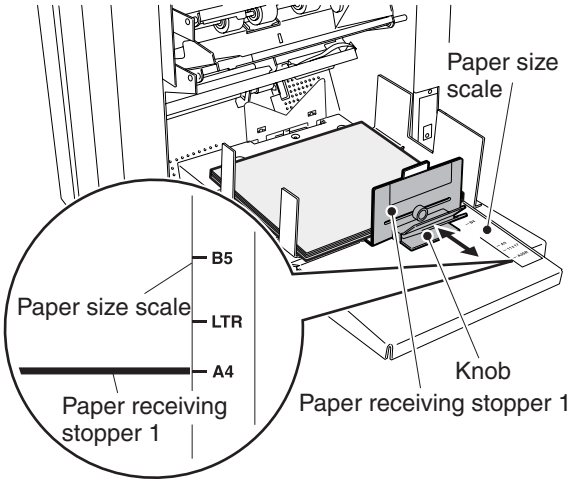




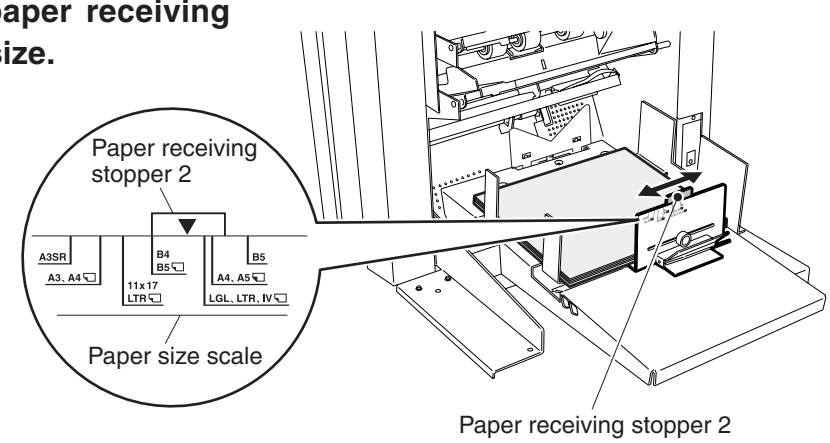
5 Move and adjust the paper receiving stopper 1 to the paper size.

The paper size scale on the paper receiving table is at the standard position for each paper size.

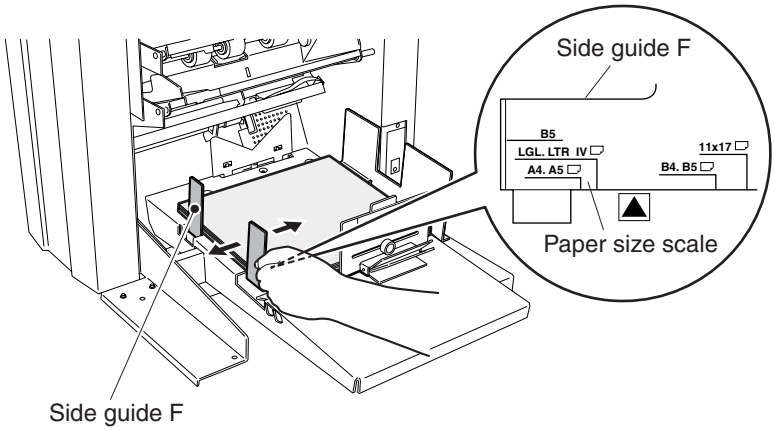
If paper is not stacked properly, or if paper is crushed by the back jogger, adjust the knob to move the paper receiving stopper 1 back and forth.



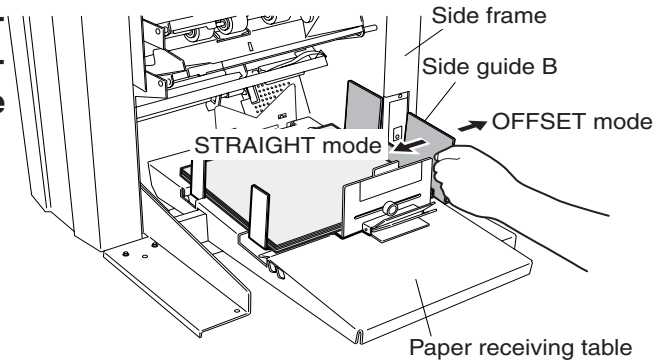
6 Move and adjust the paper receiving stopper 2 to the paper size.



7 Adjust the side guide F to the paper size.

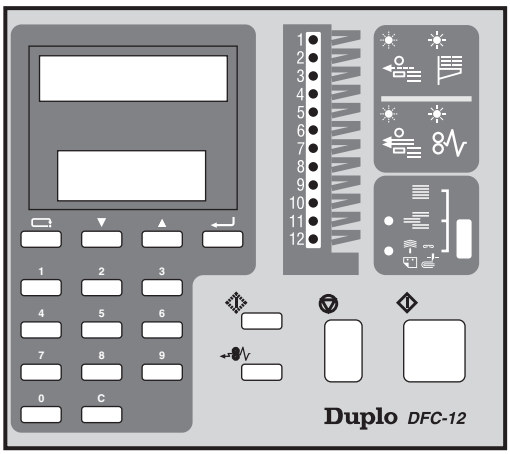


8 When set to the STRAIGHT mode, move the side guide B until it touches the paper receiving table. When set to the OFFSET mode, move it until it touches the side frame.



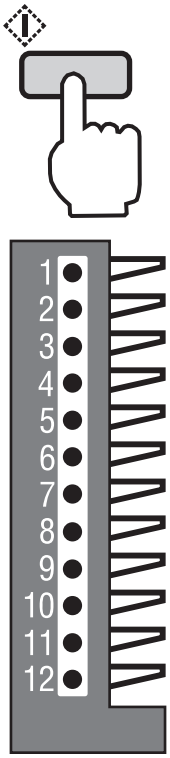
9 Set the collation mode, paper receiving method, and count display method on the control panel.

- For details, refer to "11. USING THE CONTROL PANEL" (☞ page 19).
- When using the downstream unit, refer to "12. CONNECTING THE DOWNSTREAM UNIT" (☞ page 27).



10 Press the Preset key.

One set of paper is sent from the bin.



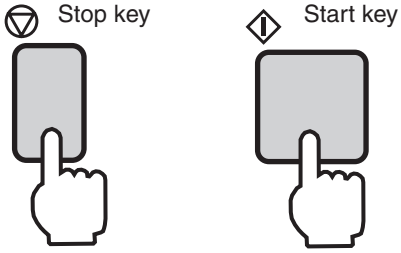
Note **If the set is not aligned properly, finely adjust the paper receiving stoppers 1 and 2, and side guide F. (☞ Refer to pages 12, 13.)**

- The paper feed error lamp of bins with no paper will light up in green.(☞ Page 36)
- This preset function differentiates between bins with paper and those without, and memorizes the length and thickness of the paper on each bin. Based on this data memorized, double-feed is detected.
- For details, refer to "13. DOUBLE-FEED DETECTION FUNCTION" (☞ page 34).

Take the ejected set and check that the paper has been collated properly. If not collated properly, check the location of the error on the control panel.

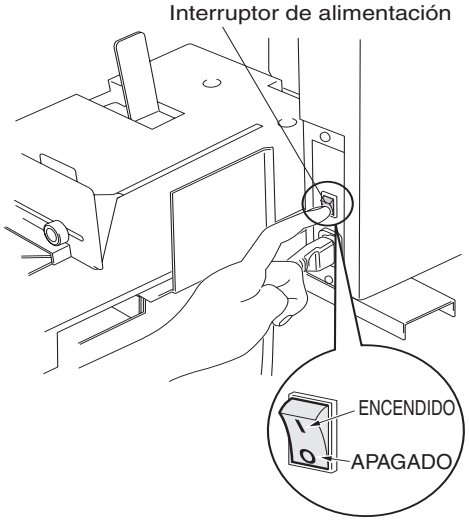
11 Press the Start key and start operations.

To stop operations, press the Stop key.



12 Turn OFF the power after completing operations.

The collation mode, the paper size and the processing mode when the downstream unit is connected are preserved even after the power has been turned OFF.



⚠ WARNING

Do not touch the power switch with wet hands.

Otherwise electric hazards may occur.

10. LOADING PAPER ACCORDING TO COLLATION MODE

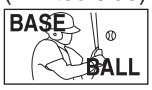
Determine how to load paper according to the operation to be carried out after collation. See the figures below for the order of loading paper on the bins and collation pages.

Note If using the downstream unit, whether to face the printed side up or down differs according to the processing method. Refer to the instruction manual of the downstream unit.

10-1. Loading paper for normal mode

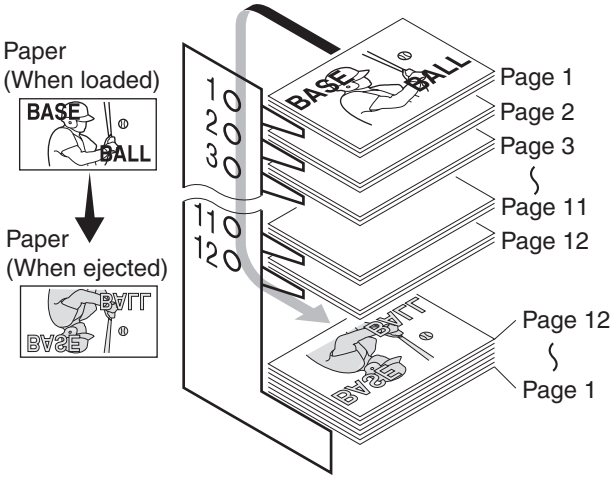
Paper is fed from the top bin in order and ejected to the paper receiving table as one set.

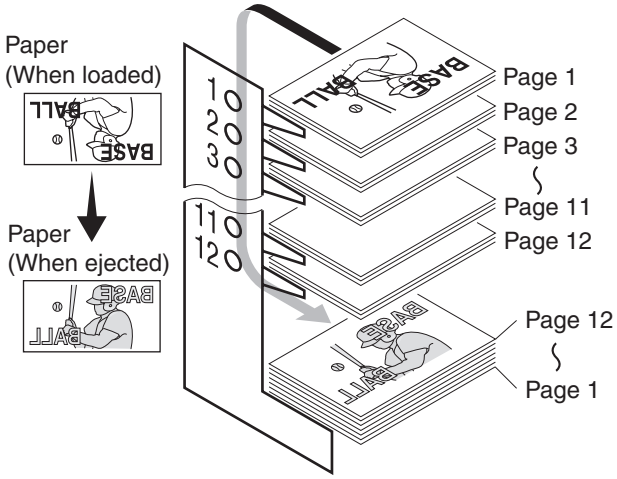
Paper
(Printed side)



When paper is loaded with its printed side facing up

When paper is loaded with its printed side facing up, the printed side of the collated paper will face down.

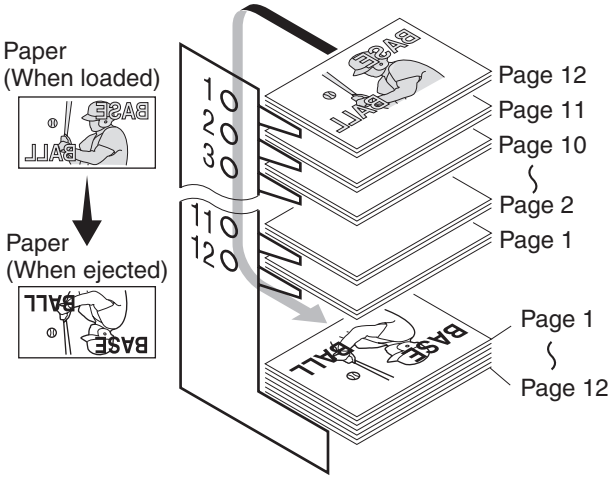


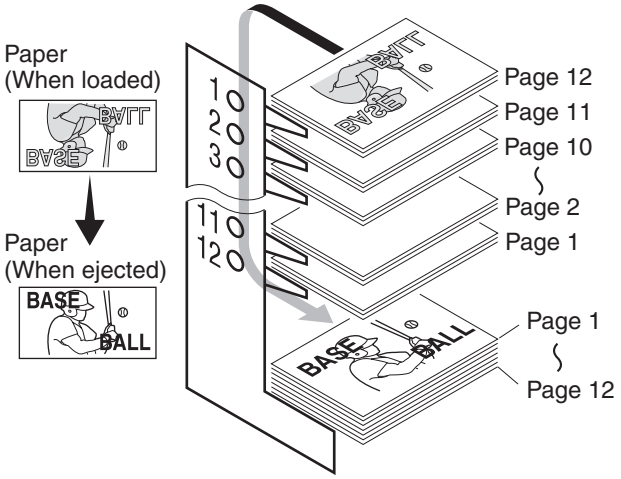


Paper
(Non-printed side)

When paper is loaded with its printed side facing down

When paper is loaded with its printed side facing down, the printed side of the collated paper will face up.



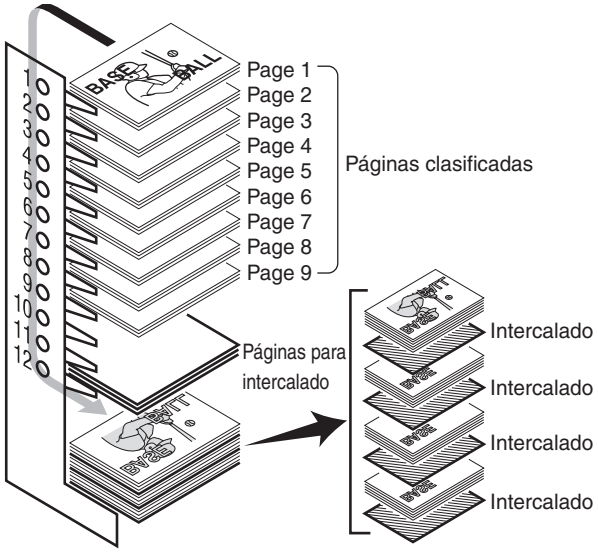


10-2. Loading paper for interleaving mode

- **Interleaves are inserted after every specified number of sets have been collated.**
- **Interleaves are inserted after every 200 sets maximum.**

Load the interleaves at the bottommost bin.
Load in bin 12 for the DFC-12 and in bin 10 for the DFC-10. See the right figure for details.

- For details on the loading direction of paper and paper ejection direction, refer to "10-1. Loading paper for normal mode" (☞ page 15).
- Interleaving mode is shown as "Int. Lv." in the LDC window.

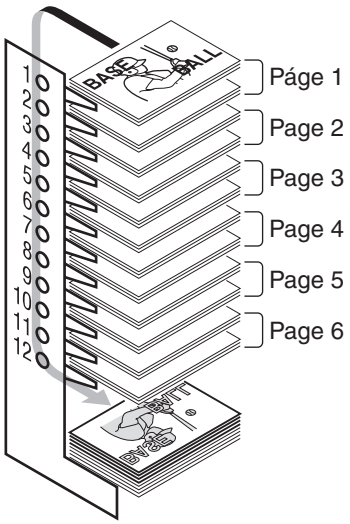


10-3. Loading paper for alternative mode

Load the same paper on continuing even and odd (top and bottom) bins from the top in order (1st and 2nd bins, 3rd and 4th bins....11th and 12th bins) for collation.

Paper feed starts from either bin (odd or even) of each pair.
If paper runs out in a bin, paper feed will start from the other bin in the pair. By replenishing paper in the empty bin, continuous operations can be ensured.

- For details on the loading direction of paper and paper ejection direction, refer to "10-1. Loading paper for normal mode" (☞ page 15).

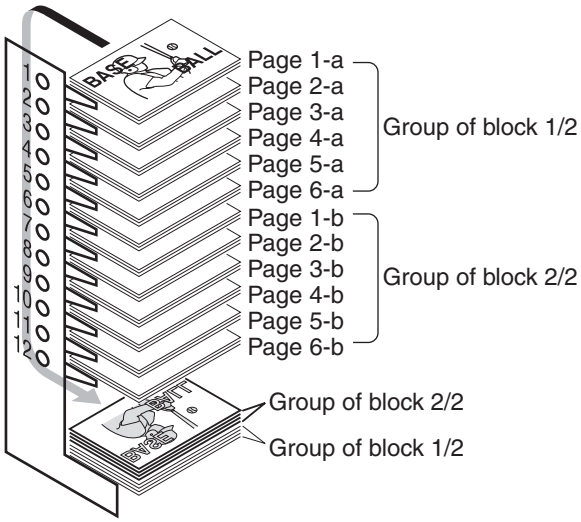


10-4. Loading paper for block mode

The bins can be divided into two blocks (6 bins each) to collate paper in blocks. For the DFC-10, bins are divided likewise 5 bins each.

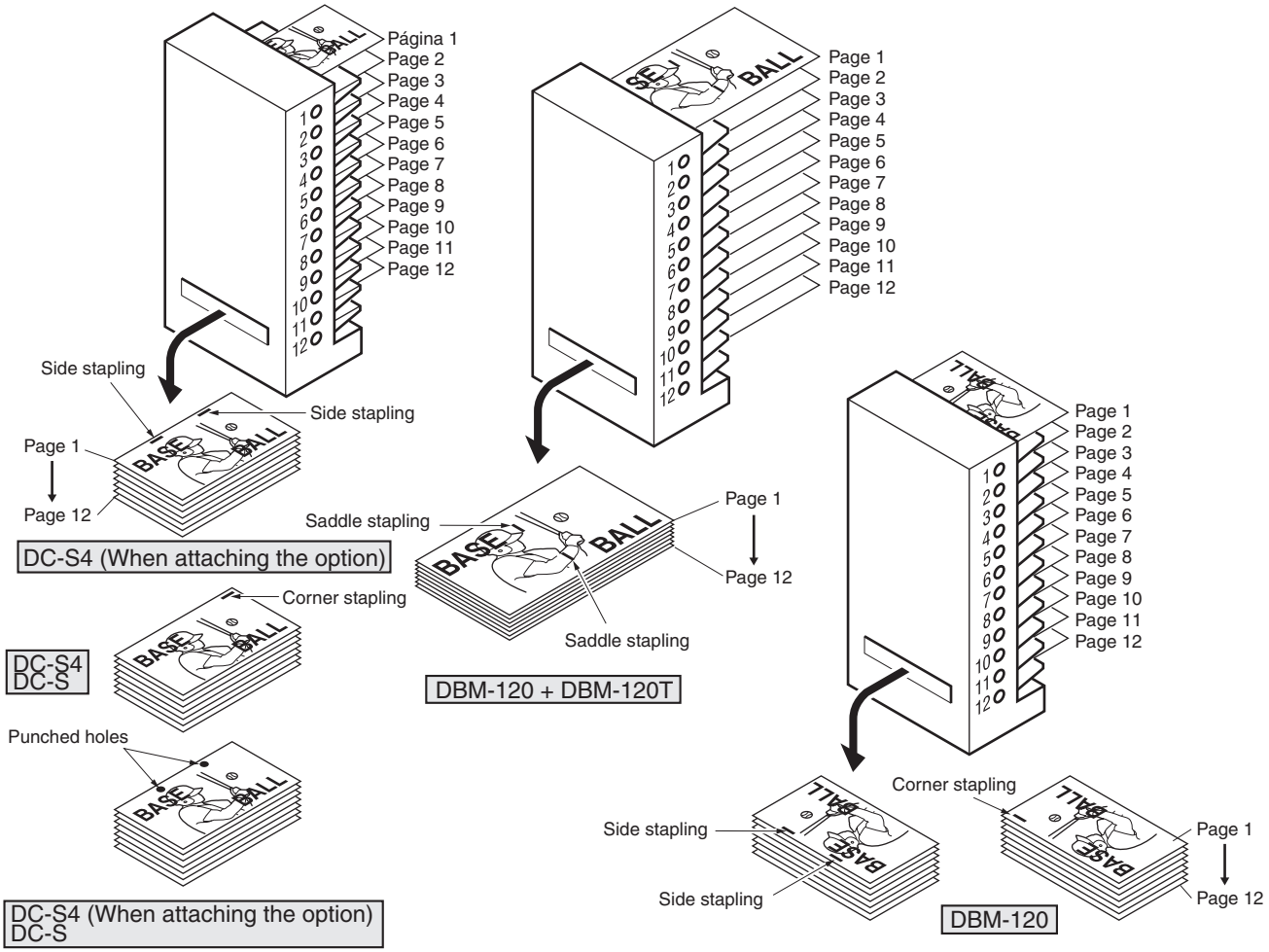
Paper feed starts from bins 1 to 6 (block 1/2). When paper on any bin of the block runs outs, operation is stopped. Press the Start key to switch paper feed to bins 7 to 12 (block 2/2).

- For details on the loading direction of paper and paper ejection direction, refer to "10-1. Loading paper for normal mode" (☞ page 15).



10-5. How to load paper when downstream unit is connected

- **Paper ejected from the DFC-12/10 is punched, stapled, folded, and trimmed as shown below by a downstream units.**
- **The interleaving mode cannot be set if a downstream unit is connected.**



10-6. Loading paper according to paper size

The direction differs according to paper size.

● **Paper loading direction available**

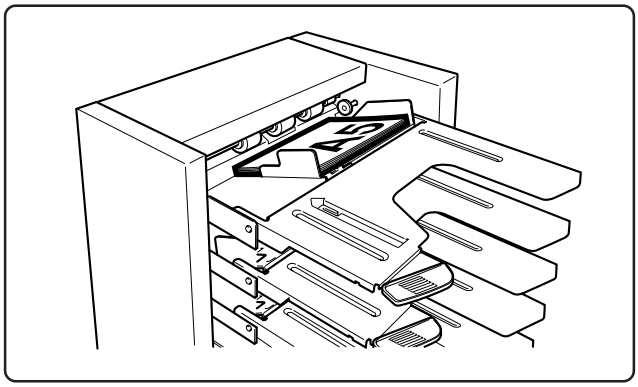
Direction	Paper size									
	A5	A4	A3	A3SR	B5	B4	LGL	LTR	LGR	INV
⇑	△	○	○	○	○	○	○	○	○	△
⇑	○	○	X	X	○	X	X	○	X	○

○ : Available X : Not available △ : Available when DBM-120 and DBM-120T are connected

- LGL = Legal (8.5” x 14”) LTR = Letter (8.5” x 11”) INV = Invoice (8.5” x7”) LGR = Double letter (11” x 17”)
- The compatible paper sizes for the DC-S are A4, B5, B4, and LGL in the above table. (Stack vertically for all)
- The compatible paper sizes for the DC-S4 are A5, A4, B5, and LTR in the above table. (However A5 paper cannot be loaded vertically)

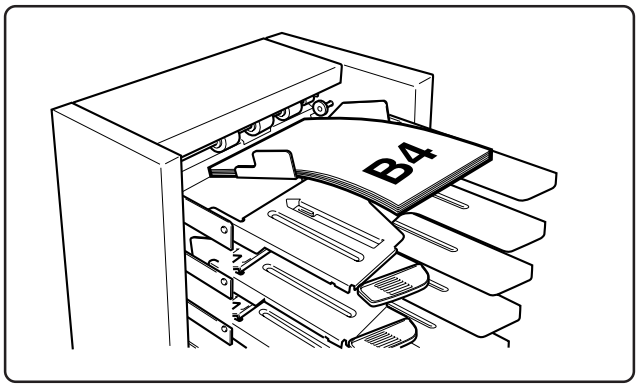
■ When paper size is A5, and INV

- Be sure to load horizontally when not connecting a downstream unit.
- When loading paper vertically, the optional "small paper size kit" will be required. However this applies only when the DBM-120 is connected.



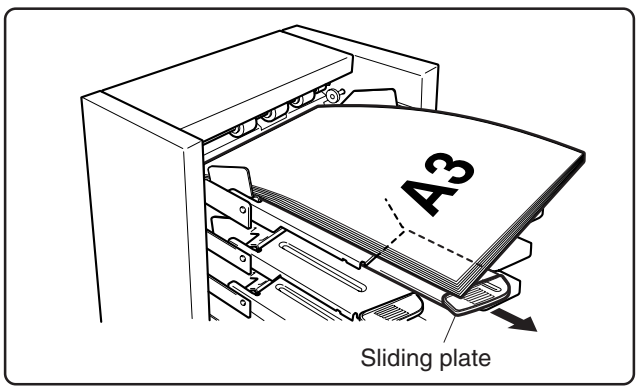
■ When paper size is B4 and LGL

- Load vertically.



■ When paper size is A3, A3SR, and LGR

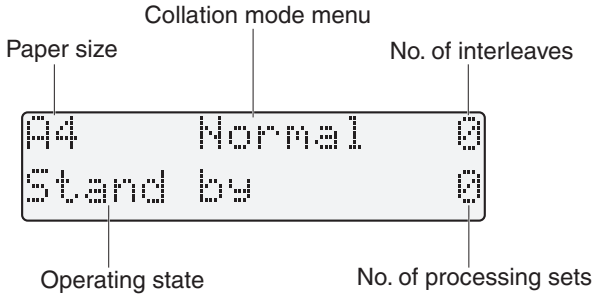
- Pull out the sliding plate and load vertically.



11. USING THE CONTROL PANEL

This section describes the contents of the LCD and how to set the collation mode, paper receiving mode, and count display method.

11-1. LCD window



● Paper size

- Set when using the downstream unit.
  If no downstream unit is connected, the paper size will not be displayed.
- Displays the paper size saved.
  Select from **A3, A4, A5, B4, B5, LGR, LGL, LTR, INV, A3SR, custom 1, custom 2, custom 3**. (For details on setting the paper size, refer to "12. CONNECTING THE DOWNSTREAM UNIT" (page 27).)
- The settings will be preserved even after the power is turned OFF.

● Collation mode menu

- Displays the collation mode saved.
  Select the collation mode from NORMAL, INTERLEAVING, BLOCK, and ALTERNATIVE.
- The settings will be preserved even after the power is turned OFF.

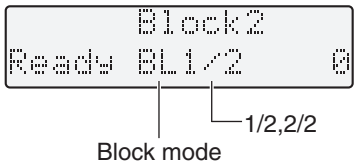
Note **If connecting the downstream unit, only the INTERLEAVING mode settings will not be preserved.**

● No. of interleaves

Displays the number of interleaves entered.(☞ Refer to page 21.)
Displays only when the interleaving mode is set.

● Operating state

For checking the current operating state of the unit.
Running ..... Currently feeding paper
Standby ..... Currently standing by
When set to the block mode, displays from which block paper is being fed.



● No. of processing sets

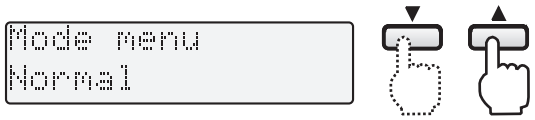
Displays the number of sets entered by the count down display method.

11-2. Setting the collation mode

Select the collation mode from NORMAL, INTERLEAVING, BLOCK, and ALTERNATIVE.

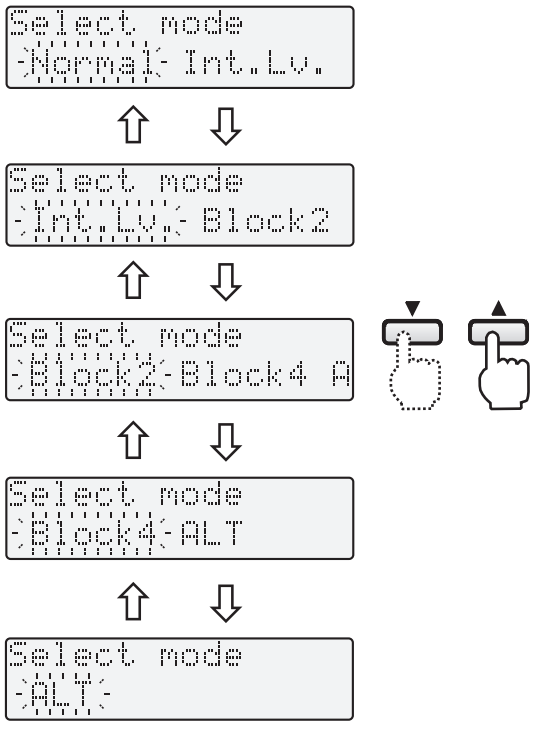
- The "Block 4"cannot be selected when using the DFC-12/10 separately.
- The interleaving mode cannot be selected when paper is ejected to a downstream unit.
- When using the interleaving mode, set the number of interleaves.

1 **Press the ▼ ▲ key and display the "Mode menu".**

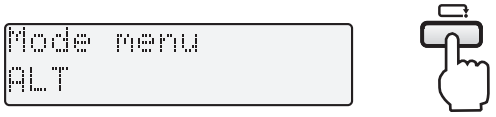


2 **Pressing the ↵ key switches the screen between NORMAL, Int.LV., BLOCK, and ALTERNATIVE.**

3 **Press the ▼ ▲ key and display the screen where the desired collation mode is blinking.**

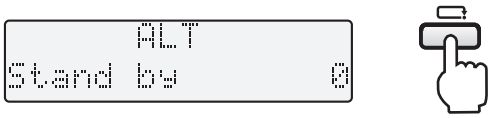


4 **Press the ↵ key and save the collation mode selected at step 3.**



To redo the setting, press the ↵ key another time to return to step 3.

5 **Press the ESC key to return to the standby screen.**



Press the ESC key until the standby screen is displayed.

* Int. Lv. ····· Interleaving mode
* ALT ····· Alternative mode

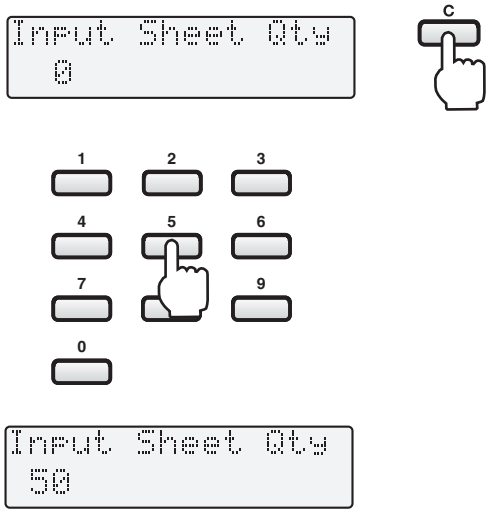
11-3. Setting the number of interleaves

When the interleaving mode is selected, interleaves will be inserted after every specified number of sets have been collated. Enter the number of interleaves at the "Sheet Quantity" screen.
Up to 200 sets can be specified to insert interleaves.

1 **Press the ▼ ▲ key to display the "Sheet Quantity" screen.**

2 **Press the ↵ key and switch to the "Input Sheet Qty" screen.**

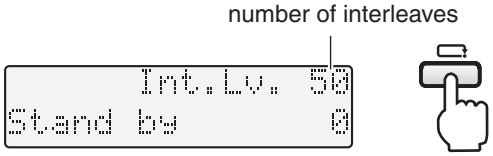
3 **Enter the number of interleaves using the numerical keys. If the previous setting of the number of interleaves is remaining, press the C key to clear to 0 first before entering the new number.**



4 **Press the ↵ key and save the number of interleaves entered at step 3.**

To redo the setting, press the ↵ key another time to return to step 3.

5 **Press the ⏻ key to return to the standby screen.**



Press the ⏻ key until the standby screen is displayed.
Check that the number of interleaves is displayed at the top right of the screen.

* Qty ····· Quantity

11-4. Setting the count display method

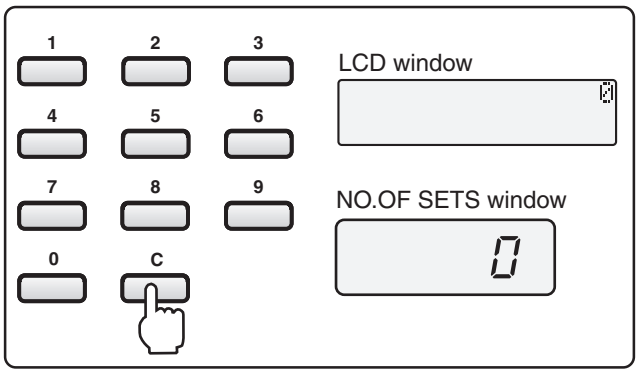
Select the count display method from the count up display and count down display.

■ Count up display method

The NO. OF SETS window counts up the number of collated sets during operations.

When the required number of sets is reached, press the Stop key to stop the unit.

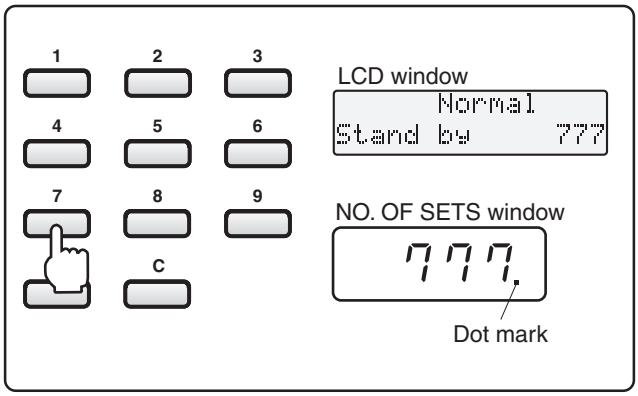
Operations stop when the display reaches "9999".



- Check that the NO. OF SETS window shows 0. To clear to 0, press the C key.

■ Count down display method

The NO. OF SETS window counts down the number of unprocessed sets (remaining sets to be processed) during operations. When the display reaches 0, the unit stops.



1 Check that the NO. OF SETS window shows 0. To clear to 0, press the C key.
2 Enter the number of sets to be collated using the numerical keys. Up to 9999 can be entered.
3 Check that the number of processing sets entered is displayed at the LCD and NO. OF SETS window.

When collating repeatedly in the same number of sets, turning ON the "Processed sets repeat setting" enables repeated collation by restarting the unit.

When the number of processing sets repeat setting is ON, a dot mark will be displayed on the NO. OF SETS window. This dot mark will not be displayed if the setting is OFF.

For details, refer to "Setting processed set repeat" (☞ page 26) of "11-6. Other settings".

Total count display

The total number of sets which have been collated can be checked using the Stop key.

- Pressing the Stop key for more than one second while the unit is stopping displays the total number of sets.
- Releasing the Stop key clears the display.

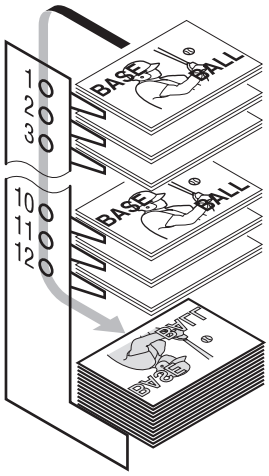
Note

- The number of sets displayed is the total number of sets from when the power was turned ON to the end of collation. When the power is turned OFF, the number of sets displayed will be cleared to 0.
- If more than 9999 sets have been processed, the number of sets display will clear to 0 and start counting again.
- To reset the total count to 0, press the C key while pressing STOP key for more than one second.
- Opening the vertical conveyance cover during operations stops the operation immediately and the NO. OF SETS window may show a different count from the number of sets actually collated.

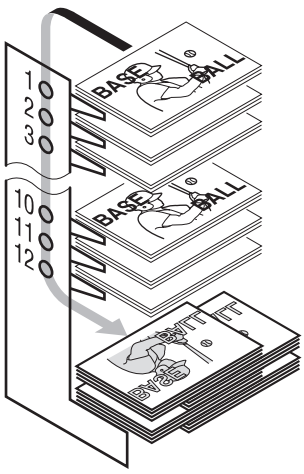
11-5. Setting the paper receiving method

- **Paper can be ejected to the paper receiving table in two ways; the OFFSET mode which sorts paper ejected onto the table into sets and the STRAIGHT mode which stacks sets into one pile.**
- **Select "OPTION" when using the downstream unit.**
- **Press the Select key and set the paper receiving mode.**
- When OPTION is selected, paper will not be ejected to the paper receiving table.
- To switch between the two modes during operations, be sure to adjust side guide B. (☞ page 13)

Straight mode

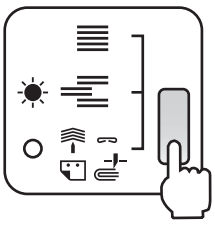


Offset mode



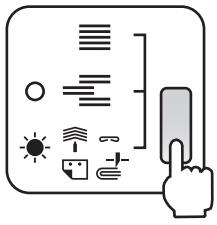
■ OFFSET mode

Press the Select key to light up the OFFSET lamp.



■ OPTION mode

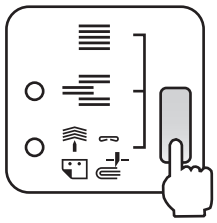
Press the Select key to light up the OPTION lamp.



OPTION can not be selected when the downstream unit is not connected.

■ STRAIGHT mode

Press the Select key to turn off the OFFSET and OPTION lamps.



11-6. Other settings

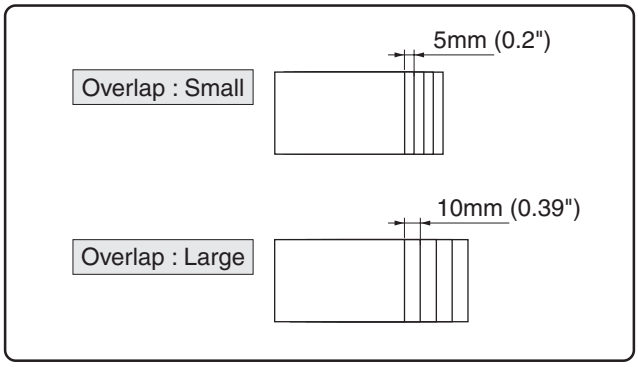
If the paper ejected to the downstream unit or paper receiving table is not aligned properly, or the same collation operation is repeated, perform the "Overlap", "Speed", and "Processed set repeat" settings at the "Other Settings" screen on the control panel.

Setting overlap

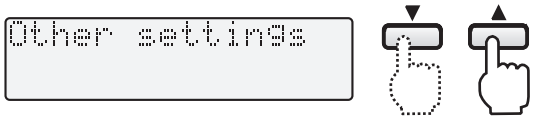
If paper ejected to the downstream unit is not aligned properly, this can be improved by shifting overlap of collated paper during ejection.

At shipment, “Overlap ” is set to “None”.

Note **Set to “None” when ejecting to the pa per receiving table.**

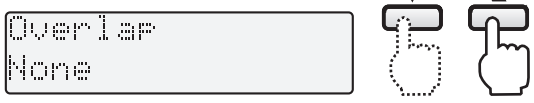


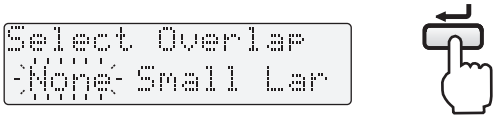
1 **Press the ▽ △ key to display "Other settings".**



2 **Press the ↵ key and display the screen for selecting “Overlap", "Speed", and Initial Qty Rpt".**

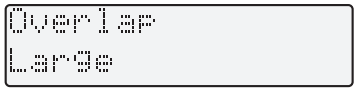
Press the ▽ △ key to display the " Overlap" screen, and next press the ↵ key to display the screen for selecting the overlap .





3 **Press the ▽ △ key to display the screen where the overlap to be set is blinking.**

4 **Press the ↵ key and save the Overlap selected at step 3.**



To redo the setting, press the ↵ key another time to return to step 3.

Adjust the overlap while checking the paper alignment state.

5 **Press the ⏻ key to return to the standby screen.**

Press the ⏻ key until the standby screen is displayed.

Setting speed

For auto, the speed is adjusted automatically according to the paper size, number of sheets, overlap, paper receiving mode, and whether the downstream unit is connected or not. Delay the processing speed if the paper ejected to the downstream unit is not aligned properly or if errors occur frequently when the downstream unit is connected.

Select speeds from **auto, 5, 4, 3, 2, 1** (the speed drops from **5** towards **1**).

At shipment, “Speed” is set to “Auto”.

Note **When the downstream unit is connected, set the speed to less than 3.**
5 and 4 cannot be selected.
The processing speed will change when the "Overlap" setting is changed.

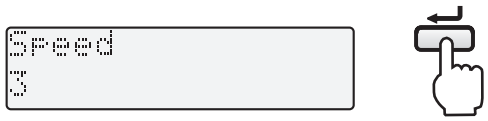
1 **Press the ▼ ▲ key to display "Other settings".**

2 **Press the ↵ key to set the screen for selecting "Overlap ", "Speed", and “Initial Qty Rpt".**

Press the ▼ ▲ key to display the "Speed" screen, and next press the ↵ key to display the screen for selecting speed.

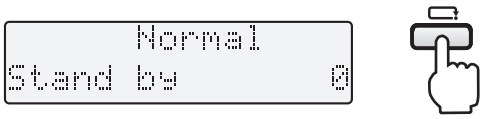
3 **Press the ▼ ▲ key to display the screen where the speed to be set is blinking.**

4 **Press the ↵ key and save the speed selected at step 3.**



To redo the setting, press the ↵ key another time to return to step 3.

5 **Press the ⏻ key to return to the standby screen.**

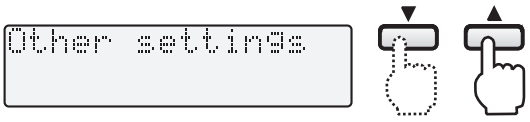


Press the ⏻ key until the standby screen is displayed.

Setting processed set repeat

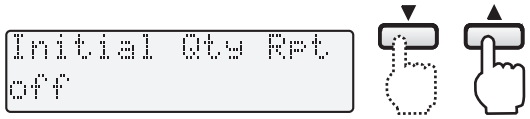
Set the **"Initial Qty Rpt"** screen to **ON** to repeat the same collation operation with the count down display method.
The number of sets entered will be memorized and the same collation will be carried out continuously.
At shipment, “Initial Qty Rpt” is set to “ON”.

1 Press the ▼ ▲ key to display "Other settings".



2 Press the ↵ key to set the screen for selecting "Overlap", "Speed", and “Initial Qty Rpt".

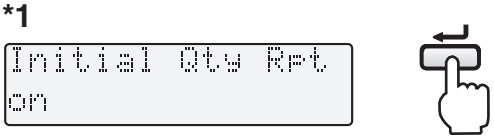
Press the ▼ ▲ key to display the "Initilal Qty Rpt" screen, and next press the ↵ key to display the screen for selecting repetition of number of processed sets.



3 Press the ▼ ▲ key to display the screen where the operation to be set is blinking.

4 Press the ↵ key and save the repeat operations selected at step 3.

***1**



To redo the setting, press the ↵ key another time to return to step 3.

5 Press the ⏻ key to return to the standby screen.

Press the ⏻ key until the standby screen is displayed.

***1: When the processed sets repeat setting is "ON", a dot mark will be displayed on the NO. OF SETS window. This dot mark will not be displayed if the setting is "OFF".**

LCD window

NO. OF SETS window

Dot mark

* Initial Qty Rpt ····· Initial Quantity Repeat

12-1. Connecting the DBM-120 and DBM-120T

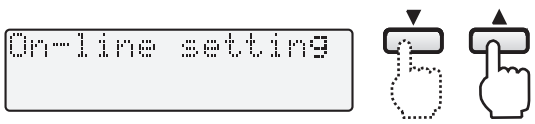
Downstream units (DBM-120, DBM-120T) can be connected to the DFC-12/10 to staple, fold, and trim collated paper.
Set the "Binding", "Paper size", "Custom size","Trimmer", and "After clearing paper feed errors" at the control panel.
Perform the following settings after pressing the Select key on the control panel, and select "Option" (☞ page 23).

Note When finely adjusting paper alignment, stapling and folding positions on the DBM-120, settings cannot be performed on the control panel. If using the downstream unit without selecting "Options", change the settings of "Binding", "Paper size", "Custom size", and "Trimmer" at the control panel of the downstream unit. When using only the downstream unit, turn ON DFC-12/10.

Setting binding method

Set the binding method of DBM-120 using the following procedure.
(For details of binding methods, refer to the instruction manual of DBM-120.)
At shipment, the binding method is set to “Through”.

1 Press the ▽ △ key and display "On-line setting".

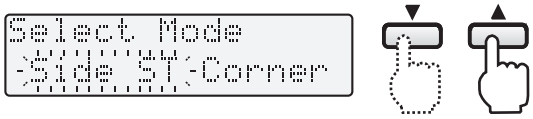


2 Press the ↵ key and display the screen for selecting "Booklet maker", "Trimmer", and "Error paper ejection".

Press the ▽ △ key to display the "Booklet maker" screen, and next press the ↵ key to display the binding method screen.

3 Press the ↵ key to display the screen for selecting the binding method.

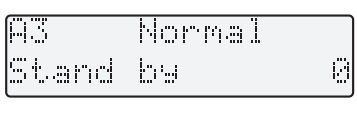
Press the ▽ △ key to display the screen where the binding method to be set is blinking.



4 Press the ↵ key and save the binding method selected at step 3.

To redo the setting, press the ↵ key another time to return to step 3.

5 Press the ⏻ key to return to the standby screen.



Press the ⏻ key until the standby screen is displayed.

Setting paper size

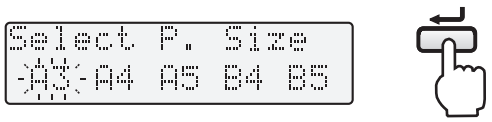
Paper size can be selected from **A3, A4, A5, B4, B5, LGR, LGL, LTR, INV, A3SR, custom 1, custom 2, and custom 3**.

To set custom 1 to 3, the paper length and width must be registered. For details, refer to "Setting the custom size"

At shipment, “Paper size” is set to “A3”.

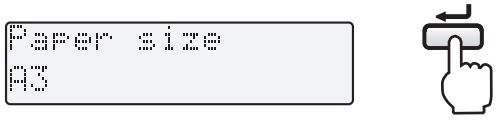
1 Press the ▼ ▲ key and display "Paper size".

2 Press the ↵ key and display the screen for selecting the paper size.



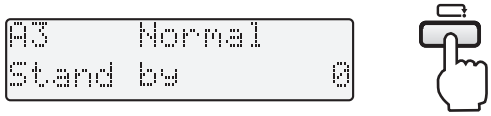
Press the ▼ ▲ key to display the screen where the paper size to be set is blinking.

3 Press the ↵ key and save the paper size selected at step 2.



To redo the setting, press the ↵ key another time to return to step 2.

4 Press the ESC key to return to the standby screen.



Press the ESC key until the standby screen is displayed.

Note Some paper sizes cannot be selected depending on the bound state.

If the paper size of your choice cannot be selected, select the binding state first according to **"Setting binding method"** on ☞ page 27 and then set the paper size.

After completing settings, check the paper size displayed at the standby screen.

Setting custom size

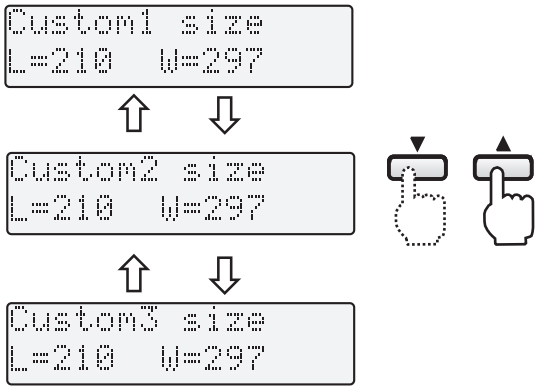
When using paper other than those specified, register the length and width of the paper. Three paper sizes can be registered (custom 1, custom 2, custom 3).

At shipment, A4 size paper length and width are registered at every custom size.

1 **Press the ▼ ▲ key and display "Custom size".**

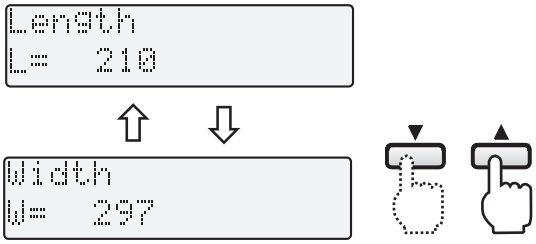
2 **Press the ↵ key and display the screen for selecting custom 1 to 3.**

Pressing the ▼ ▲ key switches between the screens for selecting custom 1 size, custom 2 size, or custom 3 size.



3 **Select the screen of the custom number to be registered, and press the ↵ key. The screen for setting the length (L) and width (W) is displayed.**

Pressing the ▼ ▲ key switches between the screens for selecting length and width.



4 **Select the screen for registering the size, and press the ↵ key to switch between the "Set Length" or "Set Width" screen.**

Screen for registering length

Screen for registering width

5 **Enter the length or width using the numerical keys.**

If any previously registered size of paper length or width is remaining, press the C key to clear to " 0 " first before entering the new number.

The length and width ranges which can be registered differ according to the binding method.

- Saddle stapling / folding
  Length: 200 to 450 mm
  Width: 200 to 320 mm
- Side stapling
  Length: 139 to 231 mm
  Width: 200 to 320 mm
- Corner stapling
  A4 size (Length: 210 mm Width: 297 mm)

6 **Press the ↵ key and register the value entered at step 5.**

Note Values out of the specified range will not be registered even if entered. If such values are entered, the display will return to the previous value. Enter values within the specified range.

To redo the setting, press the ↵ key and register the value entered at step 5.

7 **Press the ▭ key to return to the standby screen.**

Press the ▭ key until the standby screen is displayed.

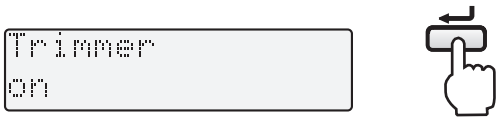
Setting trimmer

Set whether or not to use the trimmer (DBM-120T) connected to DBM-120 using the following procedure.(For details on the trimmer, refer to the instruction manual for DBM-120T.)
At shipment, “Trimmer” is set to “ON”.

1 Press the ▼ ▲ key and display "On-line setting".

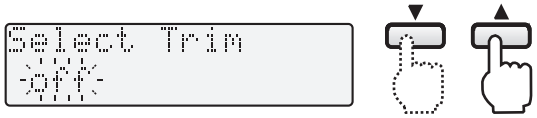
2 Press the ↵ key and display the screen for selecting "Booklet maker", "Trimmer", and "Error paper ejection".

Press the ▼ ▲ key to display the "Trimmer" screen, and next press the ↵ key to display the trimmer screen.

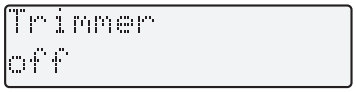


3 Press the ↵ key to display the screen for selecting trimmer.

Press the ▼ ▲ key to display the screen where the operation to be set is blinking.

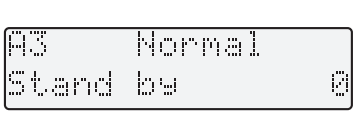


4 Press the ↵ key and save the trimming method selected at step 3.



To redo the setting, press the ↵ key another time to return to step 3.

5 Press the ▭ key to return to the standby screen.



Press the ▭ key until the standby screen is displayed.

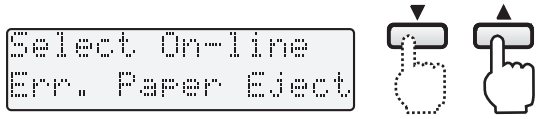
Setting "After clearing paper feed error"

Paper conveyed to the downstream unit when paper feed error occurs (no paper, mis feed, double-feed, etc.) will be ejected without binding. In this case, operations of the DFC-12/10 can be stopped or continued according to preference. At shipment, “Error paper ejection” is set to “Stoppage”.

1 Press the ▽ △ key and display "On-line setting".

2 Press the ↵ key and display the screen for selecting "Booklet maker", "Trimmer", and "Error paper ejection".

Press the ▽ △ key to display the "Error paper ejection" screen, and next press the ↵ key to display the after clearing screen.



3 Press the ↵ key to display the screen for selecting whether to continue or stop operations after ejection.

Press the ▽ △ key to display the screen where the operation to be set is blinking.

4 Press the ↵ key and save the operation selected at step 3.

To redo the setting, press the ↵ key another time to return to step 3.

5 Press the ⎋ key to return to the standby screen.

Press the ⎋ key until the standby screen is displayed.

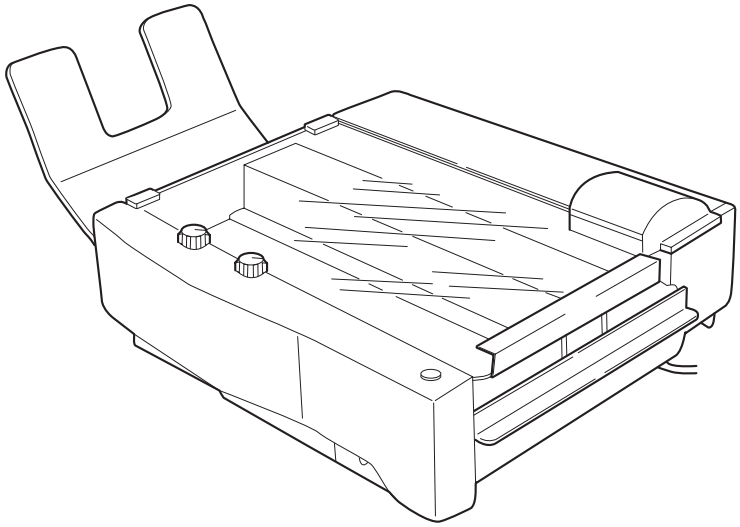
Note

- Even though “Continuation” is selected, operations stop when feeding errors occur twice successively. In case of high speed, another set may be fed after those erroneous sets. This set will be, however, ejected without binding.
- When On-line setting is set to “Through”, any error stops operations even though “Continuation” is selected.
- If errors (empty-feed, double-feed,) occur for the last set in collation when the count display method is set to "count-down method", the machine will stop when count is 1 even though "Continuation" is selected.

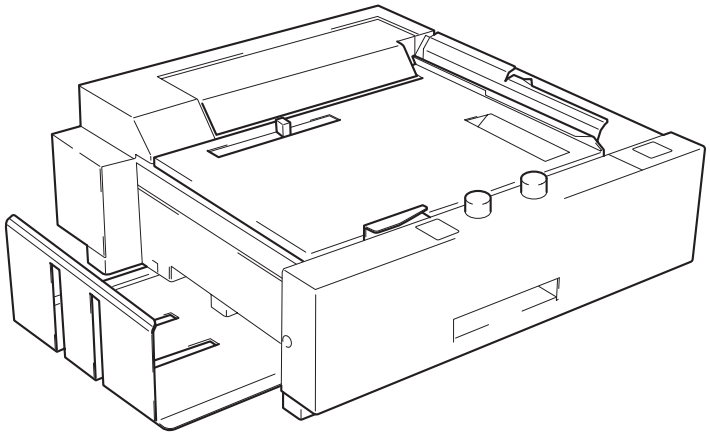
12-2. Connecting DC-S and DC-S4

- **Downstream units (DC-S, DC-S4) can be connected to the DFC-12/10 to staple and punch collated paper.**
- **The paper sizes which can be used differ between DC-S and DC-S4. For details, refer to their instruction manuals. The special connecting kit (PS-Base) is required to connect DC-S and DC-S4.**

  It can be purchased from the nearest Duplo dealer.
- **When connecting DC-S or DC-S4, press the Select key on the control panel of the DFC-12/10 and select "Option". For details, refer to "11-5. Setting the paper receiving method" (☞ page 23)**



DC-S



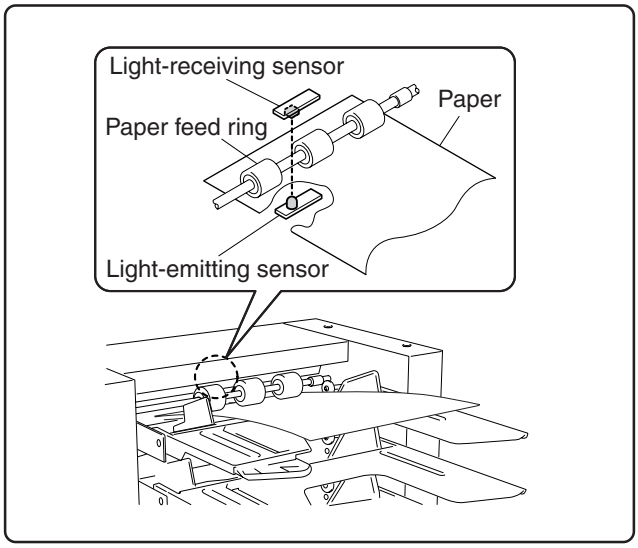
DC-S4

13.DOUBLE-FEED DETECTION FUNCTION

Using the sensor for measuring paper thickness, the thickness of paper fed by preset settings is read as the reference data, and compared with the data of the paper collated. When the difference between those data is large, it determines that a double-feed has occurred.
This function is called double-feed detection.

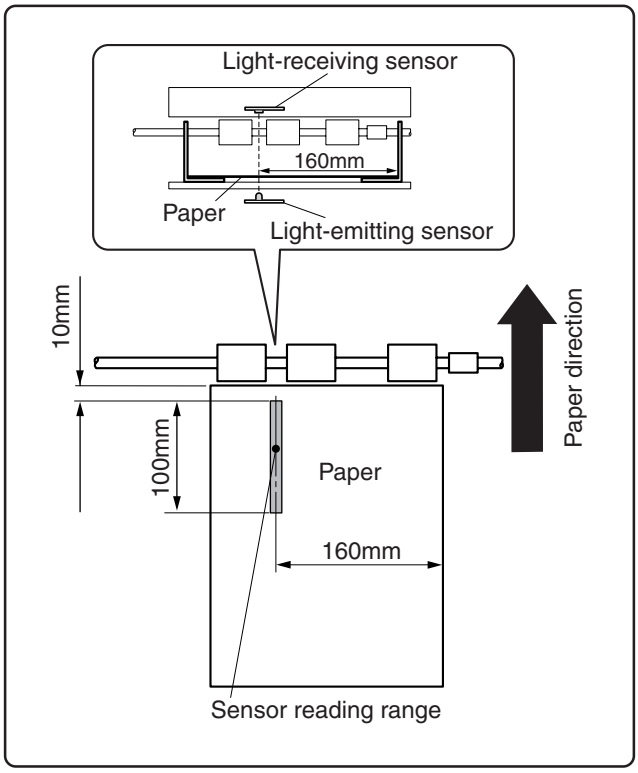
The sensor is inside the paper feed gate of each bin.

The light-emitting sensor located below paper emits some amount of light at the light receiving sensor located above paper. The sensor above measures the light amount penetrating the paper from below.



- **Sensor reading range:**

The sensors read along the line 160 mm from the side edge ranging from the point 10 mm off the top edge up to 110 mm.
When a black print is at this position, the light amount on the paper drops, disabling the sensor from operating normally. In such cases, turn off the double-feed detection sensor.
For details on setting, refer to "Switching the double-feed detection sensor between ON/OFF" (☞ page 35).



Note When using the double-feed detection sensor at OFF, the machine will not stop even if double-feed error occurs.

Switching the double-feed detection sensor between ON/OFF

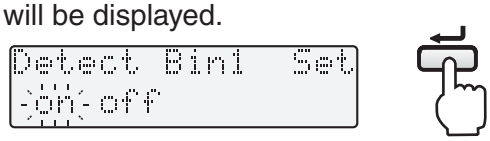
1 **Press the ▼ ▲ key and display "Double detect Set".**

2 **Press the ↵ key and display the ON/OFF state of the sensor.**

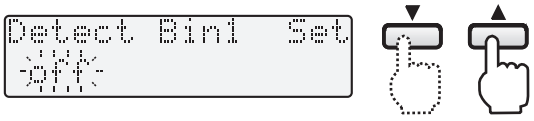
The sensor number corresponds to the order of the bins from the top in the order of sensor 1, 2, 3….12. (DFC-10 has up to sensor 10.)

3 **Press the ▼ ▲ key and select the sensor whose setting is to be switched, and press the ↵ key.**

The screen for selecting sensor ON/OFF will be displayed.



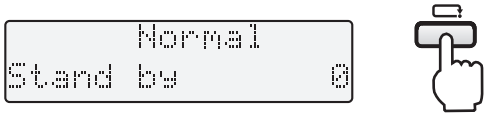
4 **Press the ▼ ▲ key, and select the screen where the sensor state to be selected is blinking.**



5 **Press the ↵ key to save the sensor state.**

To redo the setting, press the ▼ key another time to return to step 4.

6 **Press the ⌂ key to return to the standby screen.**

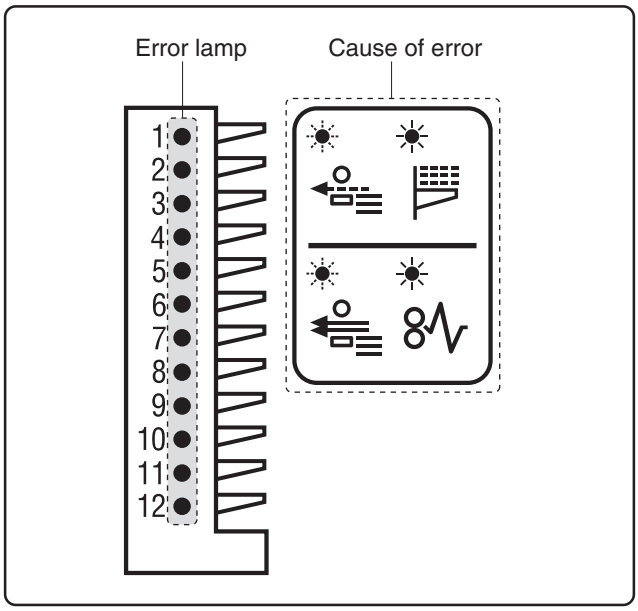


Press the ⌂ key until the standby screen is displayed.

14. WHEN BIN ERROR LAMPS LIGHT/BLINK

When paper feed errors occur during operations, the warning alarm sounds, and the bin error lamps on the control panel light up or blink.
Refer to the solutions provided below and clear the error.

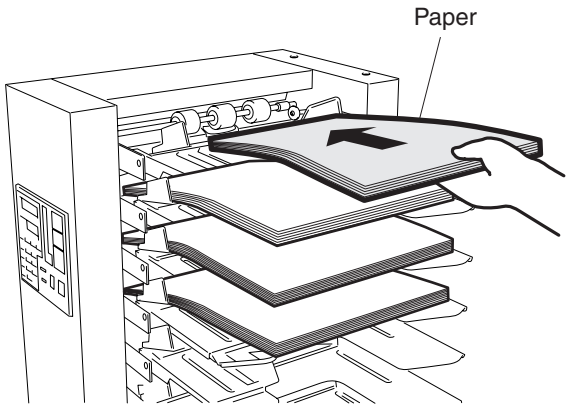
Note When "Err1" is displayed on the NO. OF SETS window, remove the last set ejected. When "Err2" is displayed remove the last two sets. The last or the last two sets may be incomplete.



14-1. When an error lamp lights in green

Paper has run out in the bin.

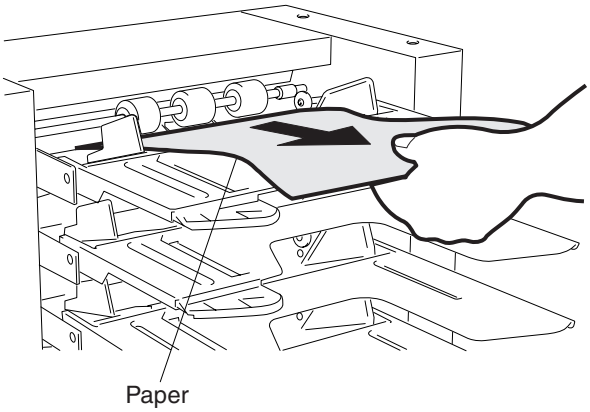
- Replenish paper in the bin.
  After replenishing, press the Start key to restart operations.
  The lamp also lights up when there is no paper in the bin during preset settings.



14-2. When an error lamp lights in red

Paper has jammed in the bin.

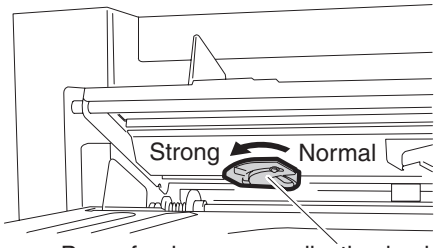
- Remove the jammed paper.
  After removing, press the Start key to restart operations.

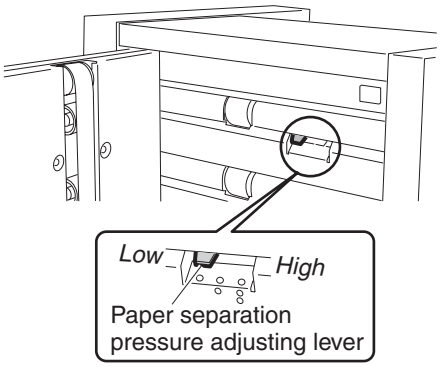


14-3. When an error lamp blinks in green

No paper has been fed from the bin. (=Empty feed)

- Fan the paper and restack again, and then press the Start key to restart operations.
- If the error occurs again, move the paper feed pressure adjusting knob to the left (strong) or move the paper separation pressure adjusting lever to the left (separator pressure drops).

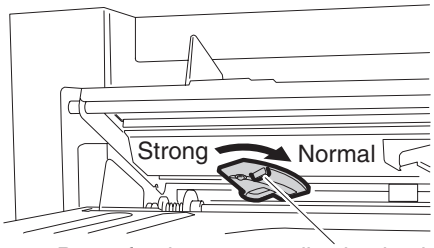


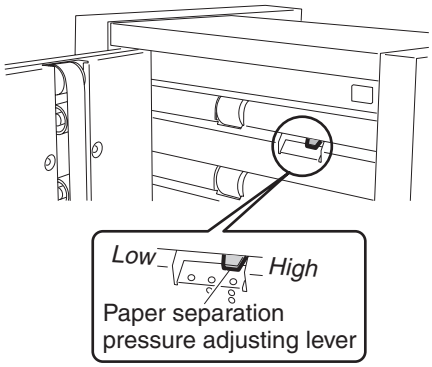


14-4. When an error lamp blinks in red

Paper has been double-fed in the bin.

- Fan the paper and align the lead edge of the paper neatly, and then press the Start key to restart operations.
- If the error occurs again, move the paper feed pressure adjusting knob to the right (normal) or move the paper separation pressure adjusting lever to the right (separator pressure increases).





15. WHEN ERROR MESSAGES ARE DISPLAYED

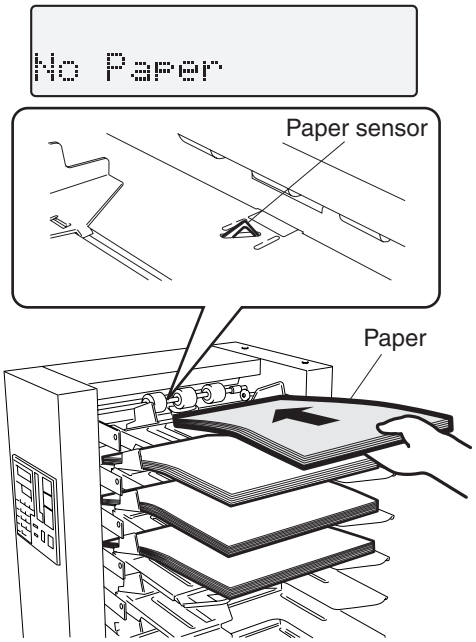
When errors occur, a warning alarm sounds, and an error message will be displayed on the LCD.

15-1. When "No Paper" is displayed

There is no more paper in the bin.

- Load paper in the bin where the error lamp is lit in green.
- Check that the paper sensor lever descends when paper is stacked.

Press the Start key to restart operations.



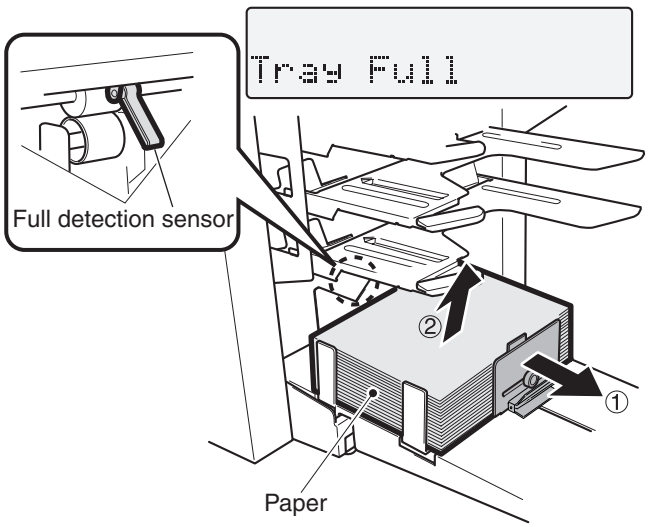
15-2. When "Tray Full" is displayed

The paper receiving table is full.

- Remove the paper on the paper receiving table.
  ① Pull the stopper 1 to the front.
  ② Remove the paper, and return stopper 1 to the original position.

Press the Start key to restart operations.

- Check that the full detection sensor lever does not remain raised.



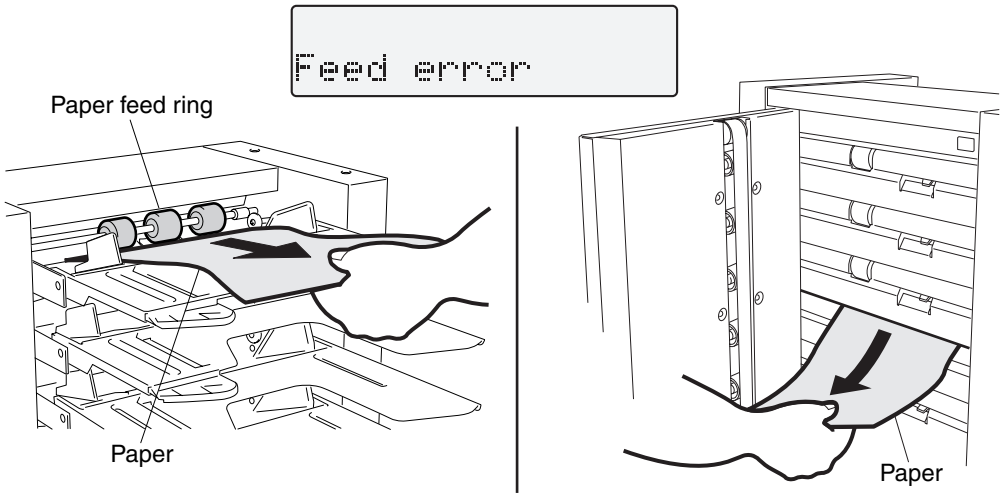
15-3. When "Feed error" is displayed

Paper has jammed at the double-feed sensor or paper feed gate.

Check the bin where the error lamp is lit in red.

- When paper has jammed at the paper feed ring
  Pull out the jammed paper to the front, and remove.
- When paper has jammed at the double-feed sensor
  Open the conveyance cover, and remove the jammed paper.

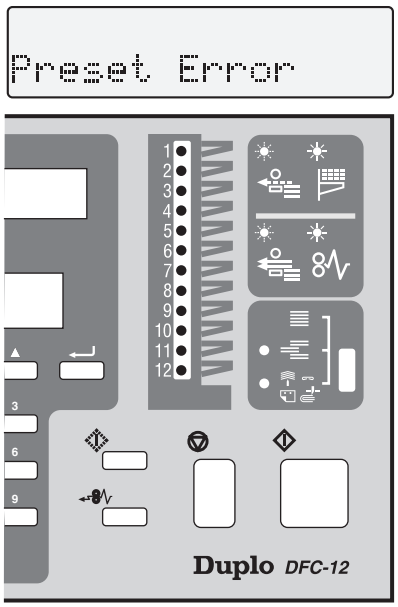
Press the Start key to restart operations.



15-4. When "Preset Error" is displayed

- **The Start key is pressed without pressing the Preset key.**
- **The Start key is pressed immediately after changing the collation mode.**

Press the Preset key first.

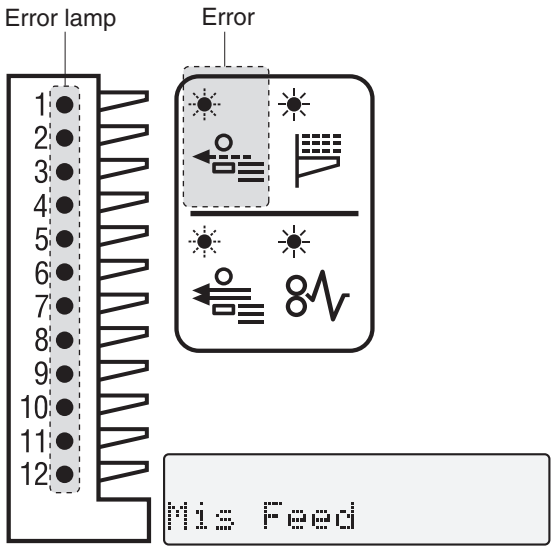


15-5. When "Mis-Feed" is displayed

No paper has been fed.

- Check the bin where the error lamp is blinking in green.
- Refer to "14. WHEN BIN ERROR LAMPS LIGHT/BLINK" (☞ page 36).

Press the Start key to restart operations.

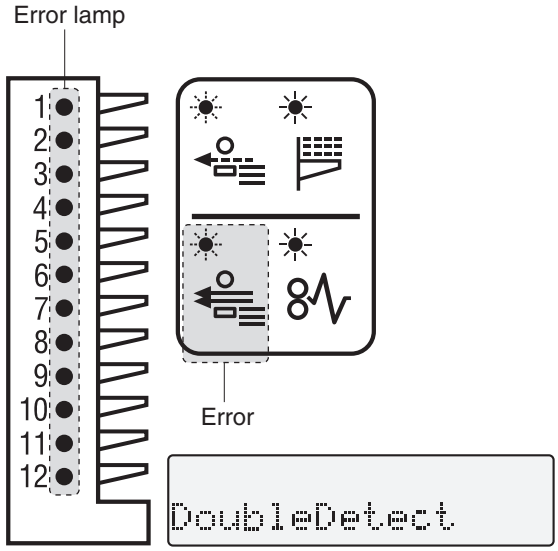


15-6. When "Double Detect" is displayed

Paper has been double-fed.

- Check the bin where the error lamp is blinking in red.
- Refer to "14. WHEN BIN ERROR LAMPS LIGHT/BLINK" (☞ page 36).

Press the Start key to restart operations.

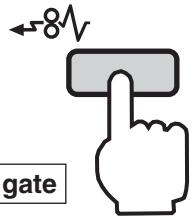


15-7. When "Paper Jam" is displayed

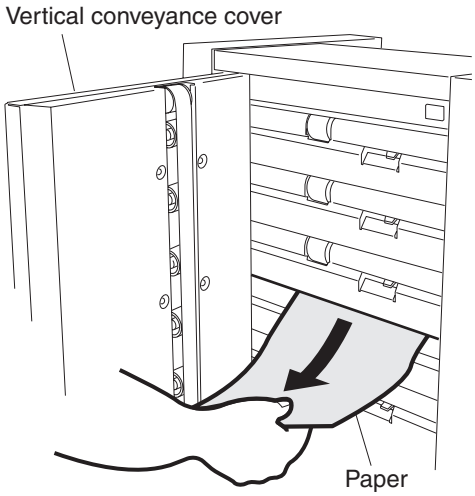
Paper has jammed in the conveyance route or paper ejection gate.

- Press the Eject key to eject the jammed paper.
- If paper does not come out even when the Eject key is pressed, open the vertical conveyance cover and remove the jammed paper.
- If paper is jammed at the paper ejection gate, pull out the paper towards the front.

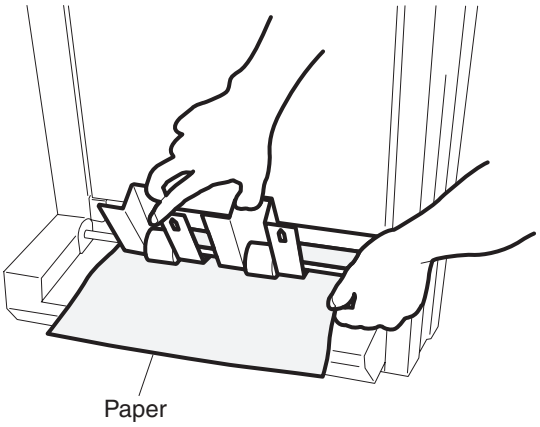
Press the Start key to restart operations.



Conveyance route



Paper ejection gate

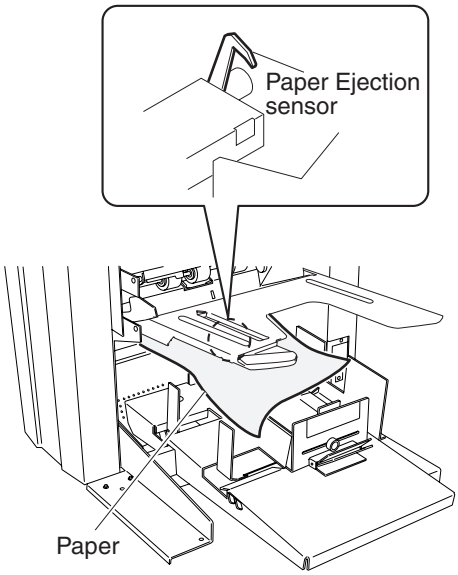


15-8. When "Stacker jam" is displayed

Paper has jammed at the paper ejection gate or paper receiving table when the power was turned ON.

- Press the Eject key to eject the jammed paper.
- If paper does not come out even when the Eject key is pressed, open the vertical conveyance cover and remove the jammed paper.
- Check that the lever of the paper ejection sensor does not remain lowered.

Press the Start key to restart operations.

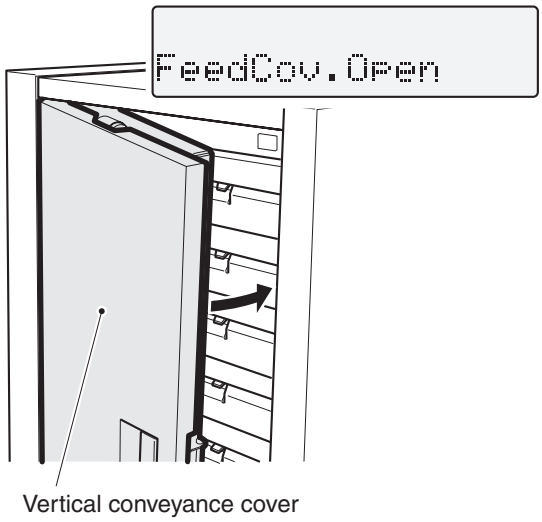


15-9. When "Feed Cov. Open" is displayed

The vertical conveyance cover is not completely closed or when it has been opened by mistake during operations.

- Close the vertical conveyance cover properly.
- If opened by mistake, after closing the cover, press the Eject key to eject the paper remaining inside.

Press the Start key to restart operations.

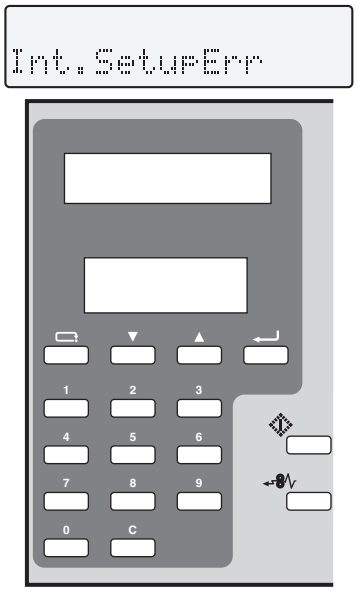


15-10. When "Int. Setup Error" is displayed

- **The number of interleaves is not entered after setting the interleaving mode.**
- **The number of interleaves is "0".**
- **There is no paper in the interleave bin (bottommost bin).**

- Refer to “11-3. Setting the Number of Interleaves” (☞ Page 21)
- Load paper on the interleave bin (bottommost bin).

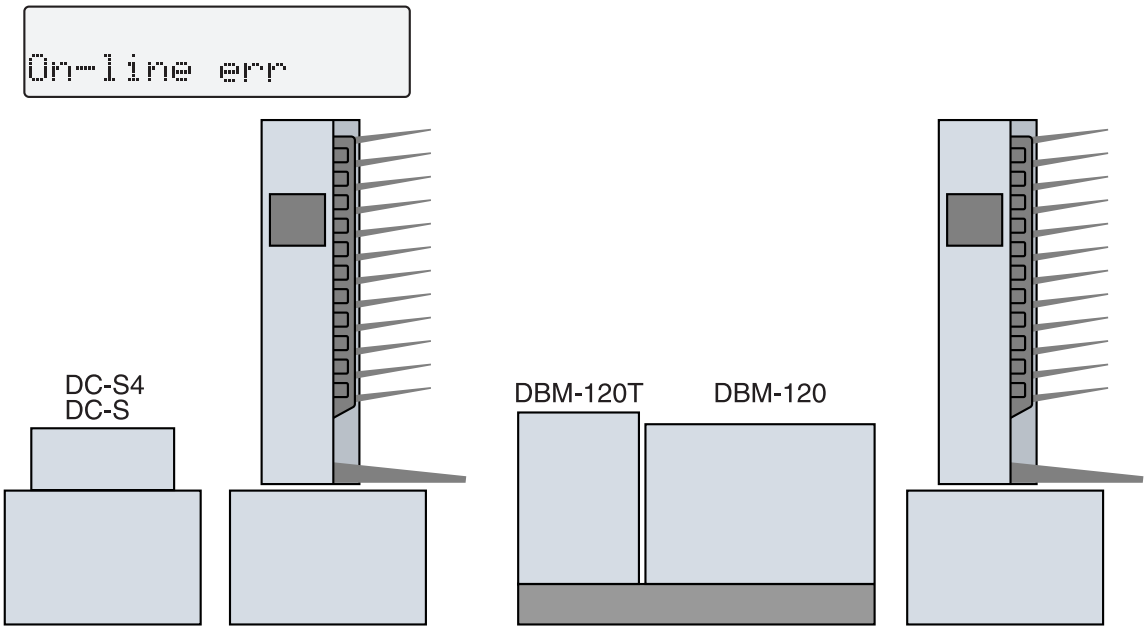
Press the Start key to restart operations.



15-11. When “On-line err" is displayed

An error has occurred in the downstream unit.

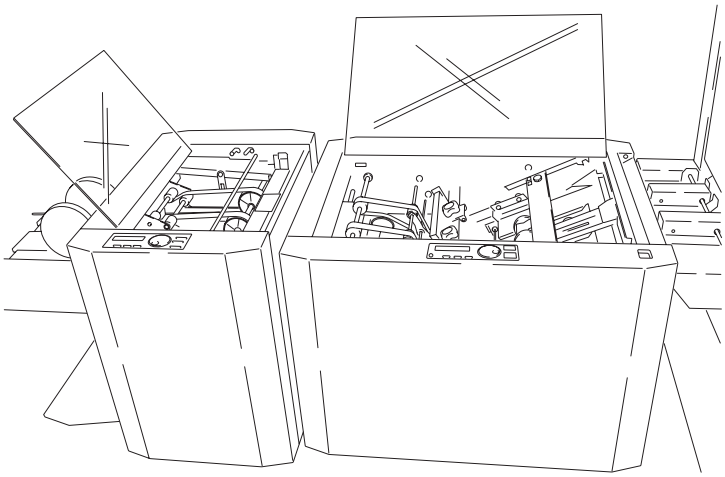
• Check the error on the control panel of the downstream unit.
For details on clearing the error, refer to the instruction manual of the downstream unit.
Press the Start key to restart operations.



16. TROUBLESHOOTING

- **When paper does not jam even though "Paper Jam" is shown in the control panel of DBM-120T**
- **When paper is ejected without being trimmed even though "Trimming" is ON**

Decrease the processing speed of the collator in such cases.
This can be improved by setting a slow collator speed. (Refer to "Setting speed" on ☞ page 25.)

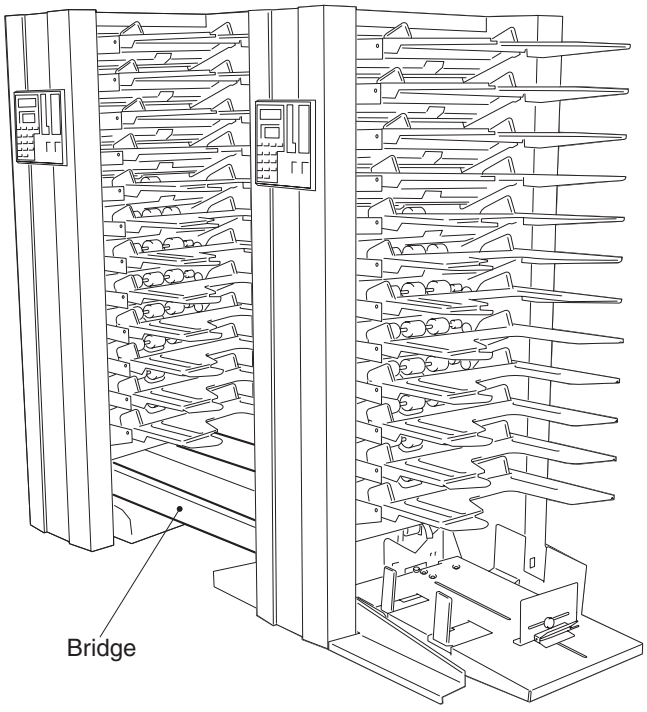


DBM-120T **DBM-120** **DFC-10/12**

When "Bridge paper jam" is displayed in the use of two towers, even though no paper is jammed in the Bridge.

Misfeed has occurred at tower B if paper is ejected to the paper receiving table of tower A. If paper is ejected to the downstream unit, misfeed has occurred at tower A.
Fan the paper sheets well at the tower with the problem. Also re-adjust the paper feed pressure and separating pressure.

For details, refer to "Precautions on Loading Paper" (☞ Page 9) and "Operations" (☞ Page 11).



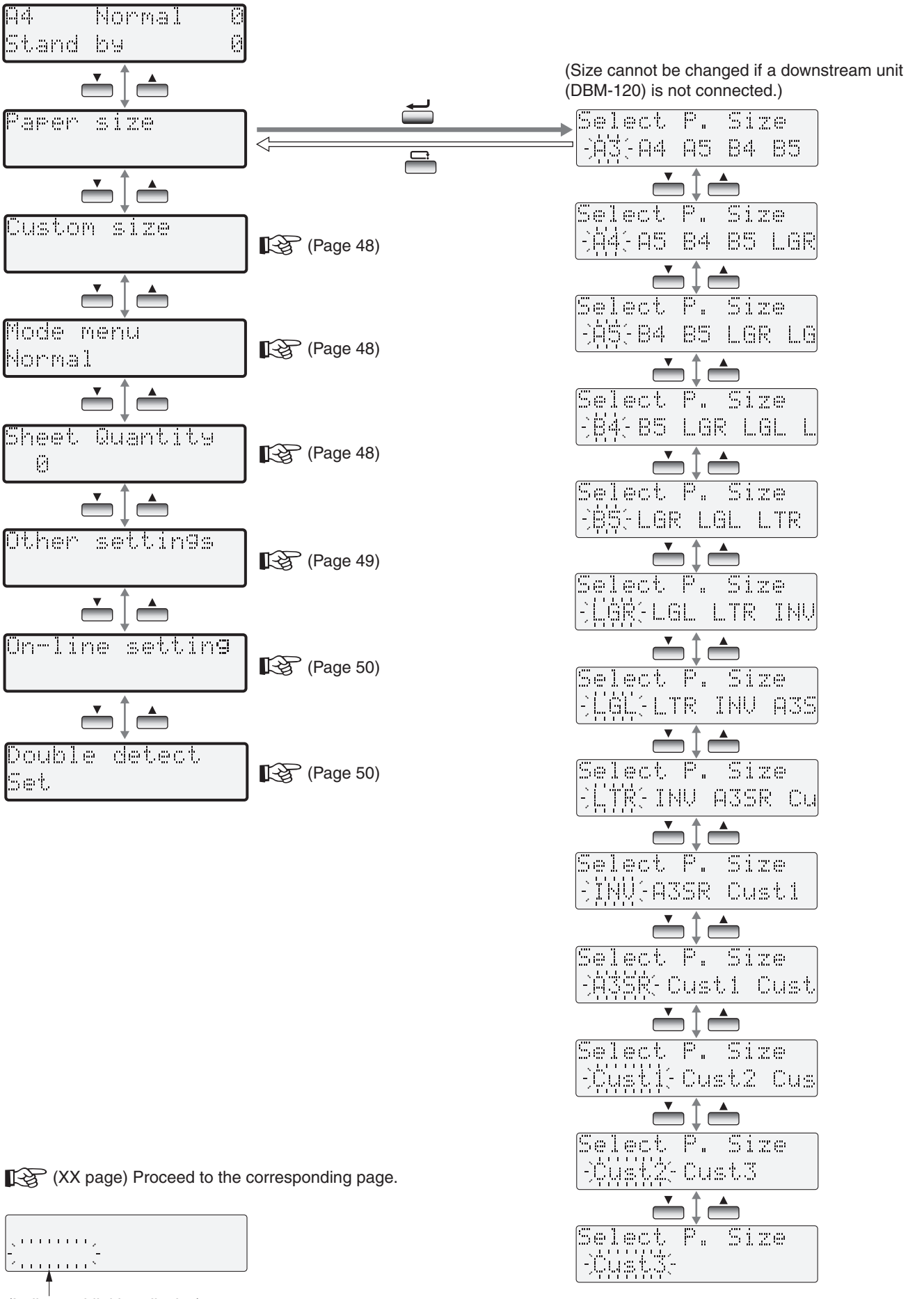
17. TROUBLESHOOTING GUIDE

Symptoms	Cause	Solution
Unit does not start even when Start key is pressed	Is the vertical conveyance cover open?	• Close the cover to start operations.
	Is the paper receiving table fully stacked with paper?	• Remove the paper.
	Have problems occurred in the down-stream unit?	• Check the cause of the problem.
	Has preset been performed?	• Be sure to press the Preset key before starting paper feed.
Paper jam error lamp lights up even if paper is conveyed correctly	Was paper changed to a different type during operations?	• When changing paper used, be sure to press the Preset key.
Empty-feed occurs frequently	Is the paper feed pressure too weak?	• Increase the paper feed pressure. (Move the paper feed pressure adjusting knob to the right.)
	Is the separator pressure too strong?	• Decrease the separator pressure. (Move the separator pressure adjusting lever to the left.)
	Are the paper feed ring or paper feed separator dirty?	• Clean the corresponding parts. Refer to " CLEANING THE UNIT AND REPLACING EXPENDABLE PARTS " (☞ page 51).
	Are the paper feed ring or paper separator worn out?	• Replace parts. Contact your nearest Duplo dealer.
Double-feed occurs frequently	Is the paper feed pressure too strong?	• Decrease the paper feed pressure. (Move the paper feed pressure adjusting knob to the left.)
	Is the separator pressure too weak?	• Increase the separator pressure. (Move the separator pressure adjusting lever to the right.)
	Are the paper feed ring or paper feed separator dirty?	• Clean the corresponding parts. Refer to " CLEANING THE UNIT AND REPLACING EXPENDABLE PARTS " (☞ page 51).
	Are the paper feed ring or paper separator worn out?	• Replace parts. Contact your nearest Duplo dealer.

Symptoms	Cause	Solution
Cannot set on control panel (Enter key is ineffective)	Have fine adjustments been performed on the DBM-120?	Clear the fine adjustment setting. (For details, refer to the DBM-120 instruction manual.)

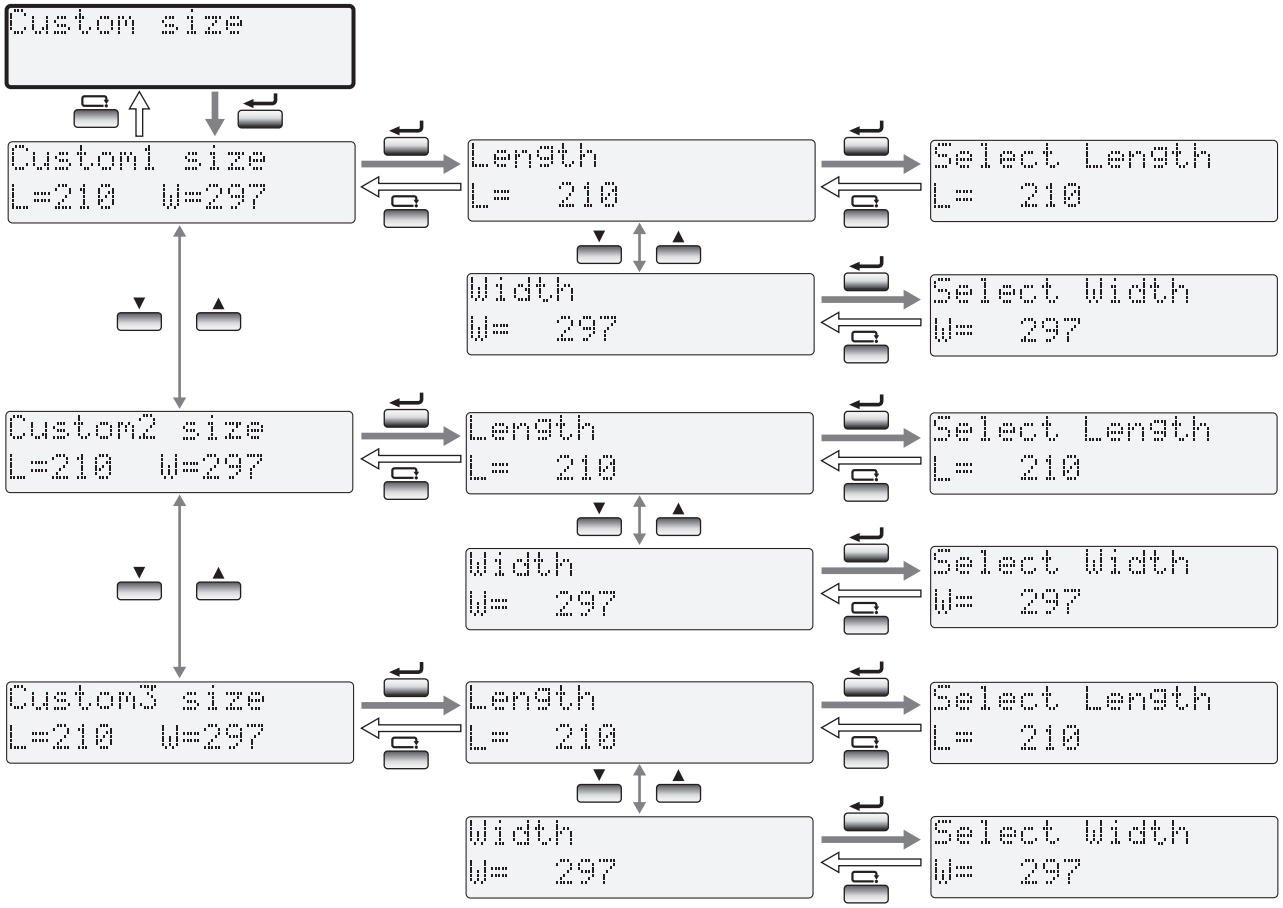
Symptoms	Cause	Solution
The following are displayed on the LCD. "**St Mot Err**" "**Bin Mot Err**" "**Feed Mot Err**" "**Deli Mot Err**" "**Online IF Er**" "**Memory Err**" "**Bin Mot O.C.**" "**St Mot O.C.**"	Malfunction to be investigated by service personnel.	• Turn OFF the power switch, wait for about 30 seconds, and then turn it ON again. If any of the following is displayed again, contact your nearest dealer. "**St Mot Err**" "**Bin Mot Err**" "**Feed Mot Err**" "**Deli Mot Err**" "**Online IF Er**" "**Memory Err**" "**Bin Mot O.C.**" "**St Mot O.C.**"

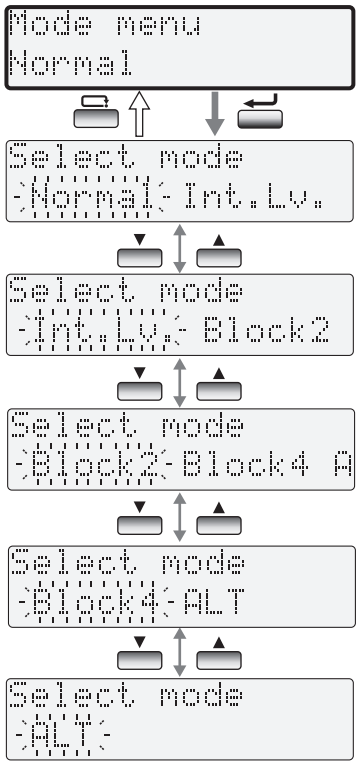
18. LCD MENU

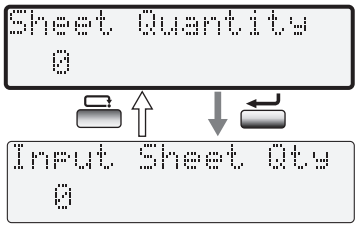


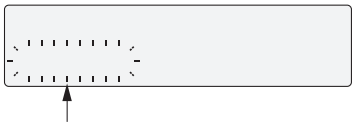
(XX page) Proceed to the corresponding page.

(Indicates blinking display)





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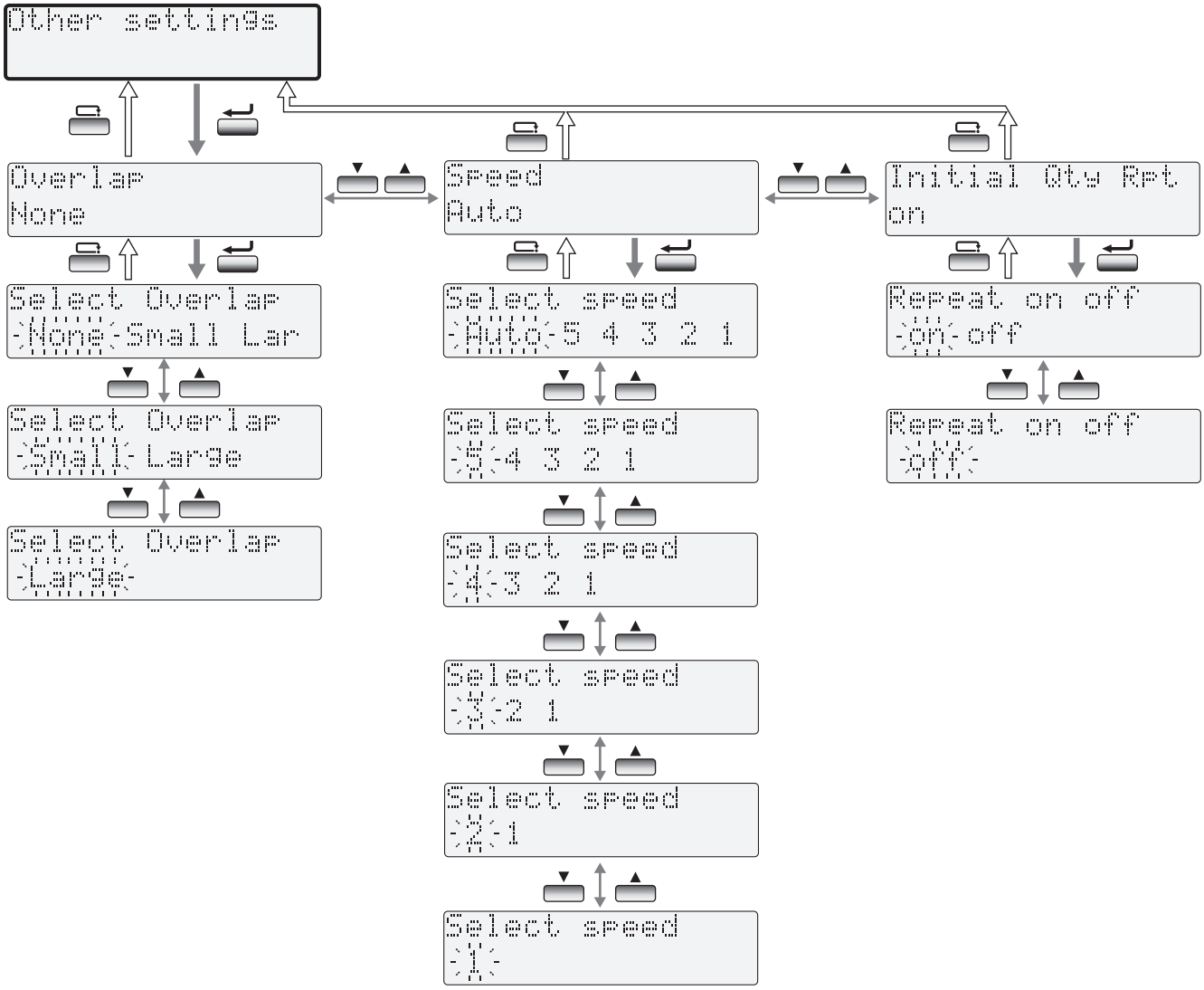

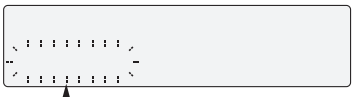

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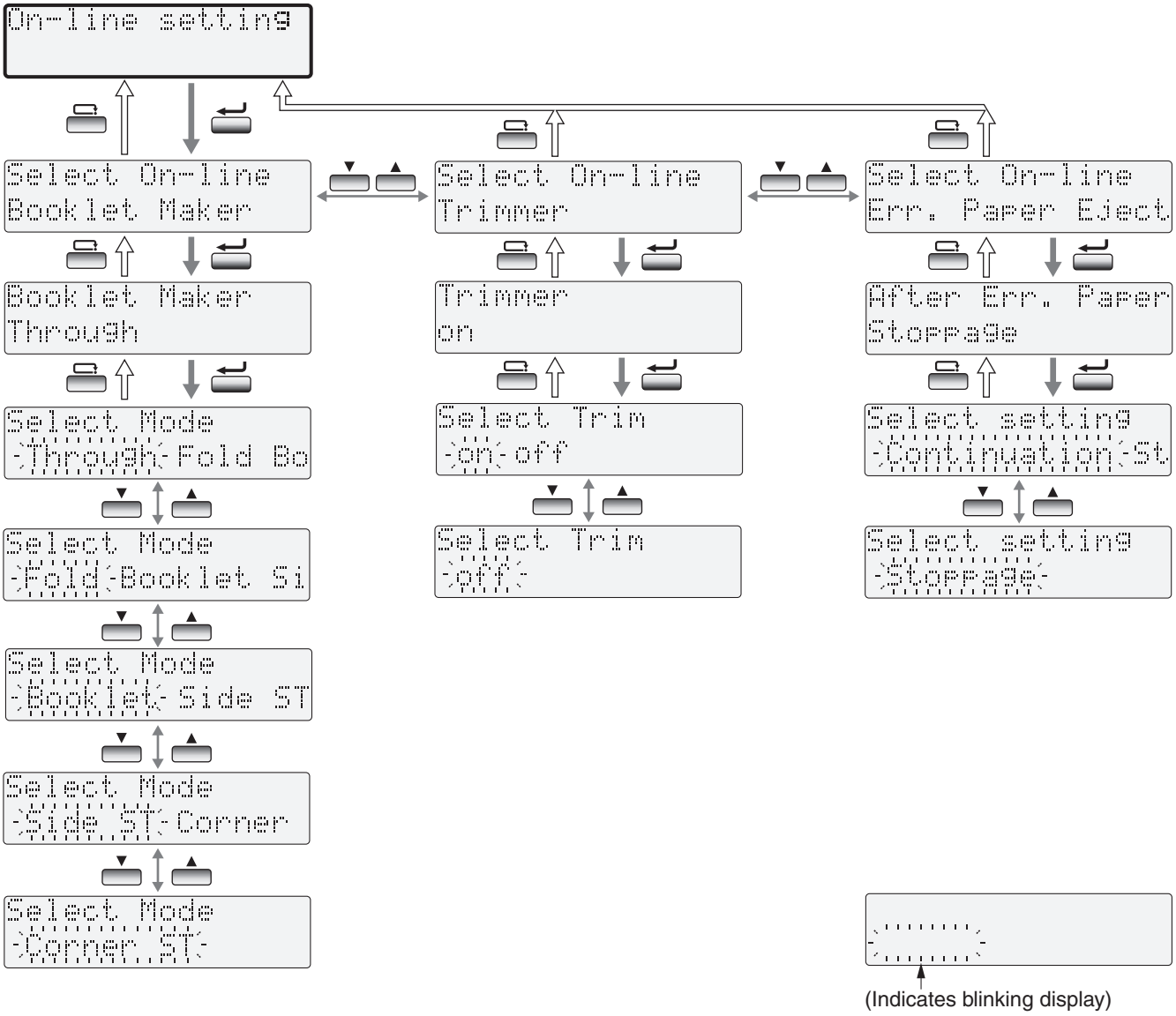
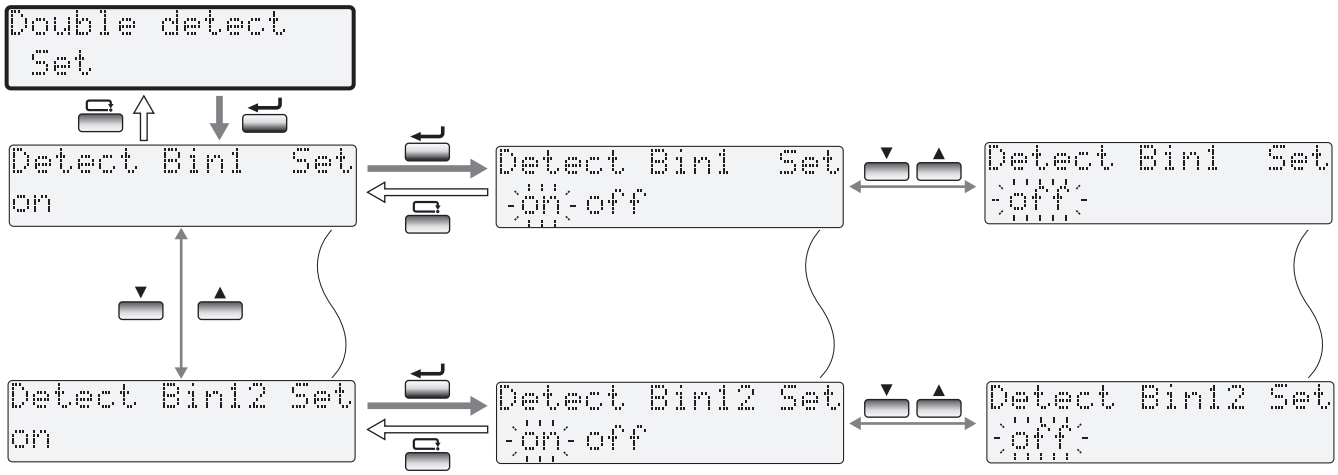

On-line setting
Select On-line Booklet Maker
Booklet Maker Through
Select Mode -Through- Fold Bo
Select Mode -Fold- Booklet Si
Select Mode -Booklet- Side ST
Select Mode -Side ST- Corner
Select Mode -Corner ST-
Select On-line Trimmer
Trimmer on
Select Trim -on- off
Select Trim -off-
Select On-line Err. Paper Eject
After Err. Paper Stoppage
Select setting -Continuation- St
Select setting -Stoppage-
(Indicates blinking display)


Double detect Set
Detect Bin1 Set on
Detect Bin1 Set -on- off
Detect Bin1 Set -off-
Detect Bin12 Set on
Detect Bin12 Set -on- off
Detect Bin12 Set -off-

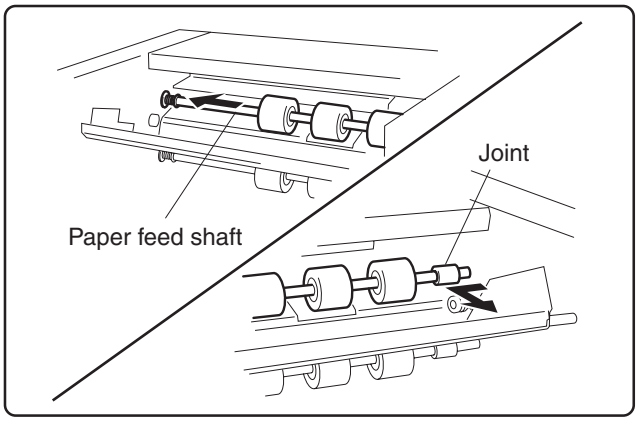
19. CLEANING THE UNIT AND REPLACING EXPENDABLE PARTS

■ Cleaning the unit

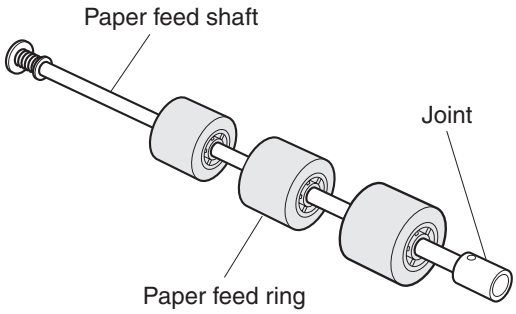
Ink or paper dust adheres to the paper feed ring or paper separator which feeds paper. Running the unit in this state will cause paper feed problems. Therefore clean periodically.

1 **Press the paper feed shaft in the arrow direction, and remove the end of the paper feed shaft at the joint.**

Remove the paper feed shaft.

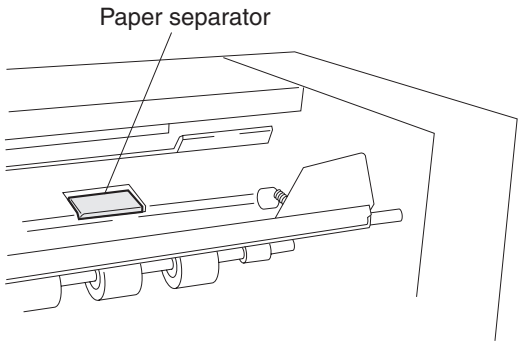


2 **At places which are dirty with ink or paper dust, wipe off with a cloth moistened with neutral detergent or alcohol.**



3 **Also clean the paper separator of the bins whose paper feed shaft removed.**

Clean after removing the paper feed shaft.



■ Replacing Expendable Parts

If the paper feed ring or paper separator has worn out, request replacement of parts to your nearest Duplo dealer.

20. SPECIFICATIONS

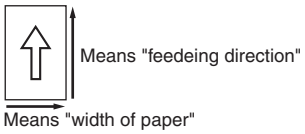
Name	DFC-12	DFC-10
Model	Friction feed vertical collator	
No. of bins	12	10
Paper feeding method	3-ring friction feed	
Paper feed bin capacity	28 mm equivalent to Fine quality paper: 64g/m^2, 330 sheets	
Paper receiving table capacity	70 mm equivalent to Fine quality paper: 64g/m^2, 800 sheets	
Paper size(Note 1)	Smallest: A5 (148 mm x 210 mm) Feeding direction (Note 4): 140 mm to 450 mm Largest A3SR (320 mm x 450 mm) width (Note 5): 140 mm to 320 mm	
Paper quality	Medium quality paper, Fine porous paper, fine quality paper (52.3 to 128 g/m^2)	
Paper type	Sheet	
Speed	Max. 65 sets/minute (A4, Overlap: None) Speed can be selected from auto to 5 levels (Note 2)	
Paper feed bin detection	Preset function memorizes bins to be used.	
Paper feed error detection	Empty-feed, double-feed, paper jam	
Other detections	No-paper, conveyance cover open, paper receiving table full, downstream unit error.	
Additional functions	Paper ejection, interleave insertion, block mode feeding, paper Overlap (3 levels), memory backup, OFFSET/STRAIGHT stacking	
Power supply	AC100-240 V, 50/60 Hz	
Power consumption	2.8-1.2A	2.0-0.8A
Size (mm)	820 (width) x 560 (depth) x 1137 (height)	820 (width) x 560 (depth) x 993 (height)
Mass (Weight)	75 kg (Note 3)	66.6 kg (Note 3)

Note 1: For the OFFSET mode, B5 size (182 mm x 257 mm) to A3 size (297 mm x 420 mm) paper can be used. Paper measuring less than 182 mm or more than 298 mm wide can only be used with the STRAIGHT mode.

Note 2: Depending on a downstream unit specifications of the downstream unit used. (Max. 40 sets/min)

Note 3: When stabilizer is used.

Note 4, 5: Paper details



Specifications and appearance are subject to change without prior notice for improvements.

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